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NAVAL UNDERSEA WARFARE CENTER SAN DIEGO CALIF
RECEIVER OPERATING CHARACTERISTICS OF CORRELATION DETECTION SYS--ETC(U)
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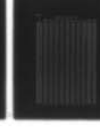
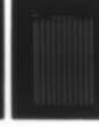
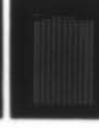
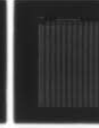
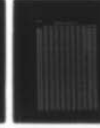
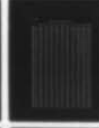
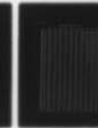
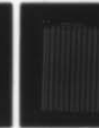
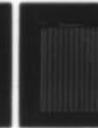
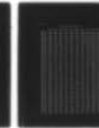
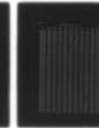
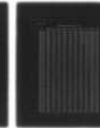
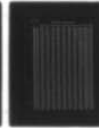
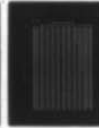
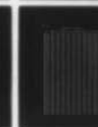
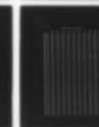
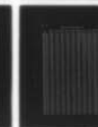
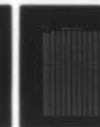
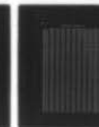
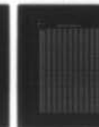
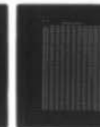
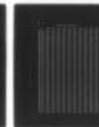
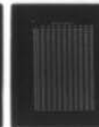
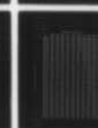
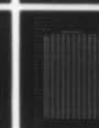
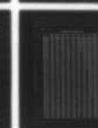
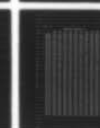
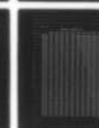
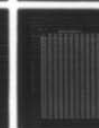
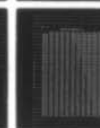
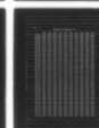
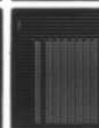
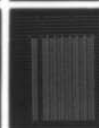
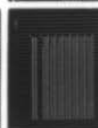
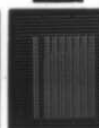
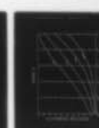
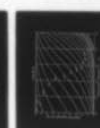
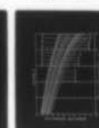
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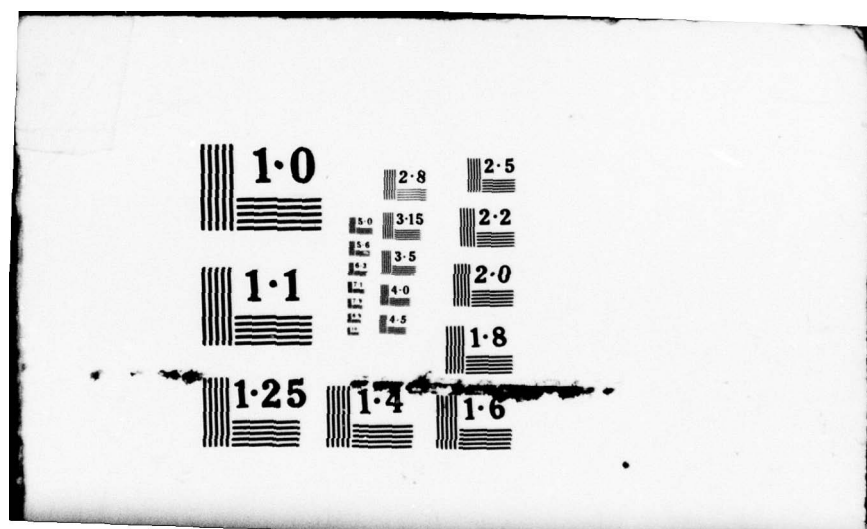
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NAVAL UNDERSEA WARFARE CENTER

(11) JUL 1967

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RECEIVER OPERATING CHARACTERISTICS OF CORRELATION DETECTION SYSTEMS USING OR CIRCUITS,

(18) by T.P. Norris

San Diego, California

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Foreword

This memorandum describes a portion of the work being done in Code 3180 for the New Submarine Sonar/Fire Control System Project Office.

The information contained herein is considered to be useful to various groups at NEL concerned with ASW system analysis.

The author is indebted to Mrs. Peggy Rogers of Computer Applications, Incorporated for the computer programming part of the effort.

~~Only limited distribution outside of the Laboratory is contemplated.~~

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Introduction

A common problem in large multichannel correlation detection systems is the reduction of the data rate at the output of the detectors. This data rate reduction should be accomplished in such a way that performance is not too adversely affected. A simple technique that satisfies this requirement is to employ an "OR" circuit.⁽¹⁾ An "OR" circuit is a multi-input, single-output device whose output is always the largest of the inputs.

The main problem here is not the "OR" circuits themselves but the performance of systems in which they are employed. The performance measure used here is the receiver operating characteristic (ROC) curves. The ROC curves are the family of curves obtained from the parametric equations of detection probability and false alarm probability. The parameters are signal-to-noise ratio, threshold and number of inputs to the "OR" circuit. These curves have been tabulated and are given in the two tables at the end of the memo.

Detection: Description and Performance

The correlation detection systems that we are concerned with consist of a bank of N linear correlators whose outputs are the inputs to an "OR" circuit. This "OR" circuit has a single output,

the largest of the correlator outputs. The "OR" circuit output is thresholded and a detection is said to have occurred if the threshold is exceeded during a time interval equal to the time resolution capability of the system. It is well known that this time interval is numerically equal to the reciprocal of the signal bandwidth, W , in cycles per second. We assume stationary, white, Gaussian noise and signal known exactly.

In the following analysis, we use the notation:

- (a) N is the number of correlators and inputs to the "OR" circuit.
- (b) β is the normalized threshold (ratio of threshold to rms output noise voltage).
- (c) α is the normalized signal amplitude (ratio of output signal amplitude to rms output noise voltage).
- (d) $D(\beta/\alpha, N)$ is the detection probability at the threshold output conditioned on α and N .
- (e) $F(\beta/0, N)$ is the false alarm probability at the threshold output conditioned on $\alpha = 0$ and N .
- (f) $Q(\beta/\alpha)$ is the probability that a correlator output is greater than the threshold conditioned on α .

The probabilities (d), (e) and (f) are related by (see Appendix)

$$D(\beta/\alpha, N) = 1 - \frac{1 - Q(\beta/\alpha)}{1 - Q(\beta/0)} [1 - F(\beta/0, N)] \quad (1)$$

where

$$F(\beta|0, N) = 1 - [1 - Q(\beta|0)]^N \quad (2)$$

Clearly, once $Q(\beta|\alpha)$ is given, the above expressions are readily evaluated. This function is the well-known Marcum Q function⁽²⁻⁴⁾ (also Rice distribution) given by

$$Q(\beta|\alpha) = \int_{\beta}^{\infty} z \exp\left[-\frac{z^2 + \alpha^2}{2}\right] I_0(\alpha z) dz \quad (3)$$

where

$$Q(\beta|0) = \exp\left[-\frac{\beta^2}{2}\right] \quad (4)$$

Numerical Evaluation

Equations (1) and (2) above are easily evaluated, provided (3) is evaluated. In this section, we will show how the evaluation of Q was performed. The zero order Bessel function in (3) is given by

$$I_0(\alpha z) = \sum_{k=0}^{\infty} \frac{\left(\frac{\alpha z}{2}\right)^{2k}}{(k!)^2}$$

Substituting in (3), we have

$$Q(\beta|\alpha) = \exp\left[-\frac{\alpha^2}{2}\right] \sum_{k=0}^{\infty} \frac{\left(\frac{\alpha}{2}\right)^{2k}}{(k!)^2} \int_{\beta}^{\infty} z^{2k+1} \exp\left[-\frac{z^2}{2}\right] dz$$

But

$$\int_{\beta}^{\infty} z^{2k+1} \exp\left[-\frac{z^2}{2}\right] dz = -2^k \exp\left[-\frac{\beta^2}{2}\right] \sum_{i=0}^k \frac{k!}{i!} \left(\frac{\beta^2}{2}\right)^i$$

so that Marcum's Q function reduces to

$$Q(\beta|\alpha) = \exp\left[-\frac{\alpha^2 + \beta^2}{2}\right] \sum_{l=0}^{\infty} \left[\sum_{k=0}^l \frac{\left(\frac{\beta^2}{2}\right)^l}{l!} \right] \frac{\left(\frac{\alpha^2}{2}\right)^k}{k!} \quad (5)$$

This equation, together with (1), (2) and (4), are the primary expressions of interest and are all that is needed to determine the performance of a linear correlation detection system equipped with an "OR" circuit.

The numerical evaluation consists of generating tables of both (1) and (2). Table I is (2) evaluated for $N = 1(1)10(10)100(100)1000$,

$$F = 10^{-1}(-10^{-2})10^{-2}(-10^{-3})10^{-3}(-10^{-4})10^{-4}(-10^{-5})10^{-5}(-10^{-6})10^{-6}.$$

Table II is (1) evaluated for the same values of N and F and for $20 \log \alpha = 0(1)19$.

Discussion of the Tables and their Interpretation

In Table I, we have tabulated the threshold in dB as a function of the false alarm probability, F , and the number of "OR" circuit inputs, N . This threshold is computed from (2). We have printed values of $20 \log \beta$, the normalized threshold in dB. The left column of the table is the false alarm probability. The notation $7E - 03$ for F means that the false alarm probability is 7×10^{-3} .

for that row. The integers that head each column indicate the number of inputs to the "OR" circuit. For example, if $F = 7 \times 10^{-3}$ and $N = 5$, then the threshold is 11.185 dB. The data from Table I are plotted in Figure I.

In Table II, we have tabulated the detection probability, D , as a function of the false alarm probability, F , the peak output signal-to-noise ratio, $20 \log \alpha$ and the number of inputs to the "OR" circuit, N . The left column is the false alarm probability and the column headings are the output signal-to-noise ratio in dB. The number of inputs to the "OR" circuit, N , appears in the heading. For example, if $N = 20$, $F = 7 \times 10^{-3} = 7E - 03$, then when the output signal-to-noise ratio is 12dB, the detection probability is .551. The data from Table II for the case $N = 1$ are plotted in Figure II.

In order to determine the input signal-to-noise ratio, the processing gain, $10 \log 2WT$, must be subtracted from the output signal-to-noise ratio⁽⁵⁾. In the example just considered, for $W = 100$ Hz and $T = \frac{1}{2}$ sec., then $10 \log 2WT = 20$ dB and the input signal-to-noise ratio is -8 dB.

Figure III is a summary of the results in Table II. It consists of the ROC curves for a 12 dB signal-to-noise ratio when $N = 1, 10, 100$ and 1000.

Appendix

The object here is to derive (1) and (2). The probability that the $N-1$ no signal inputs to the "OR" circuit are less than β is

$$[1 - Q(\beta|0)]^{N-1}.$$

The probability that the input to the "OR" circuit from the signal channel and the $N-1$ no signal inputs are less than β is

$$[1 - Q(\beta|\alpha)][1 - Q(\beta|0)]^{N-1}.$$

The probability that at least one of these N inputs exceeds β is the detection probability.

$$D(\beta|\alpha, N) = 1 - [1 - Q(\beta|\alpha)][1 - Q(\beta|0)]^{N-1}. \quad (1A)$$

Since the false alarm probability is

$$F(\beta|0, N) = D(\beta|\alpha, N)|_{\alpha=0}$$

then

$$F(\beta|0, N) = 1 - [1 - Q(\beta|0)]^N. \quad (2A)$$

Substituting (2A) into (1A) gives (1). Further, (2A) is the same as (2).

References

- (1) Atkinson, P. I., Eady, H. R., The Use of an "OR" Circuit to Combine Multiple Outputs for Detection Displays, NEL Report 840, 17 April 1958
- (2) Marcum, J. I., A Statistical Theory of Target Detection by Pulsed Radar, IRE Trans. on Information Theory Vol. IT-6, No. 2, April 1960, pp. 59-267
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- (4) Wainstein, L. H., Zubakov, V. D., Extraction of Signals from Noise, Section 33, 1962, Prentice-Hall, Inc., Englewood Cliff, New Jersey
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FIGURE I

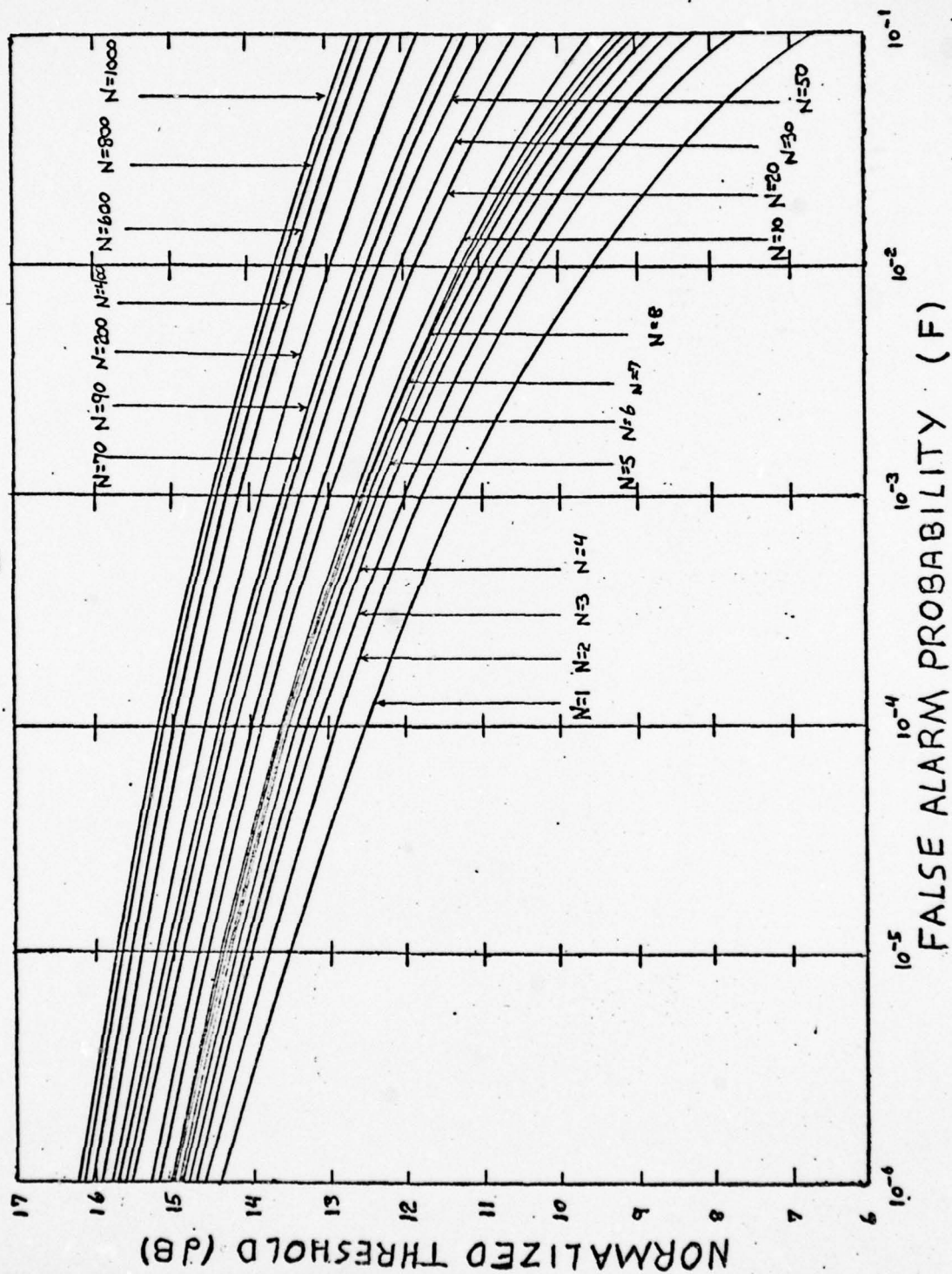


FIGURE II

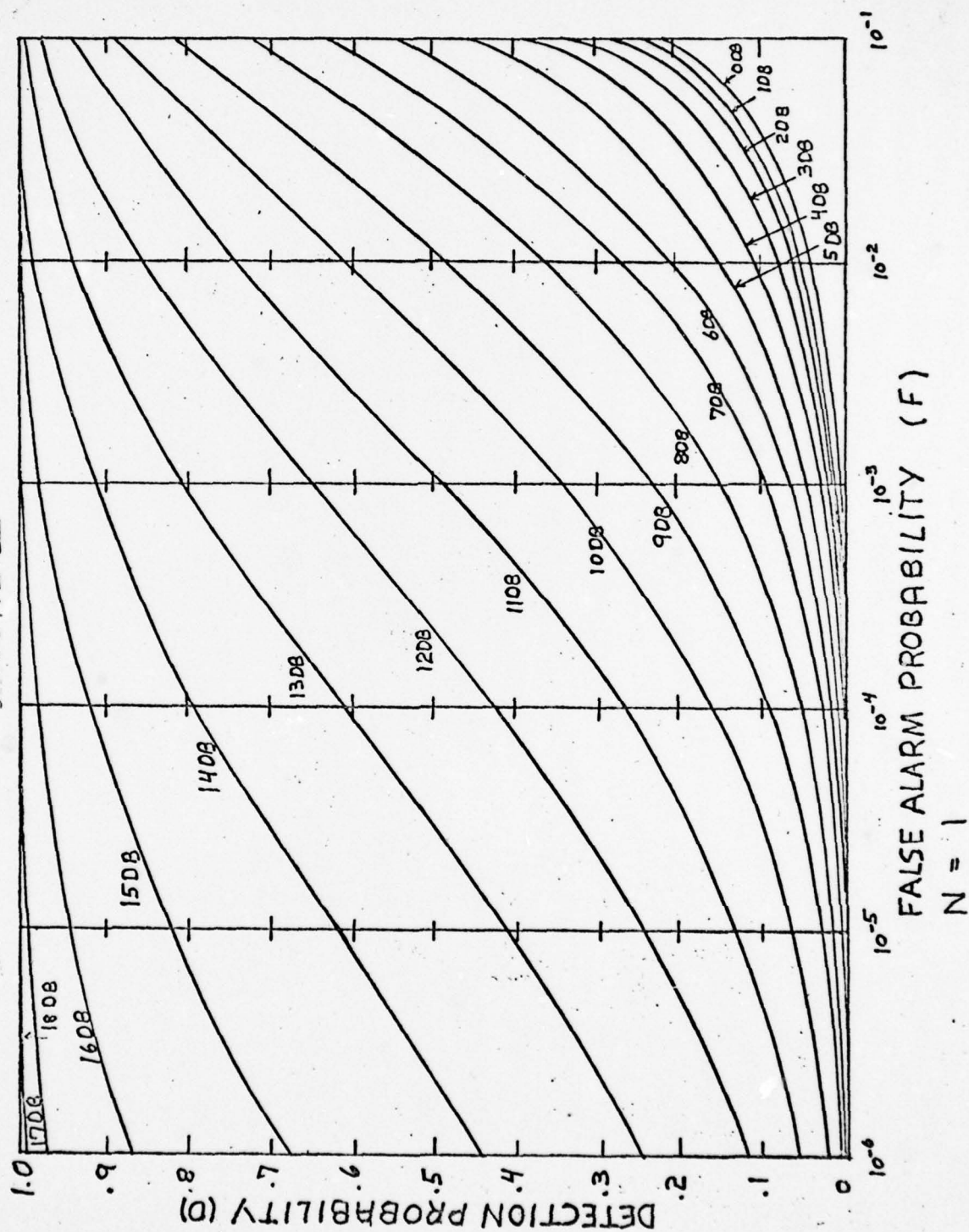
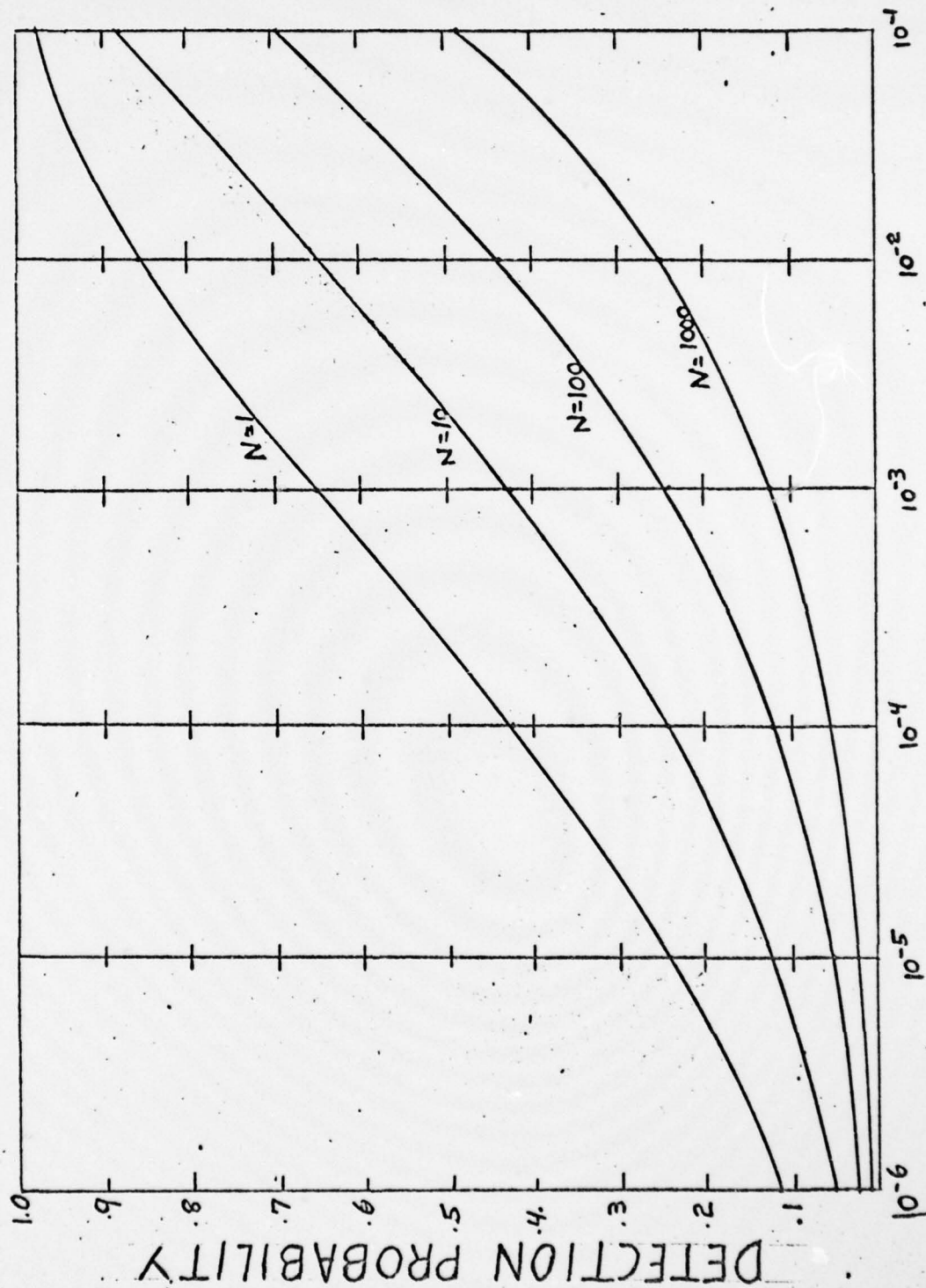


FIGURE 3



FALSE ALARM PROBABILITY

SIGNAL NOISE RATIO 12 DB

Table I

Thresholds as a Function of False Alarm Probability
and Number of "OR" Circuits.

$$N = 1(1)10(10)100(100)1000$$

$$F = 10^{-1}(-10^{-2})10^{-2}(-10^{-3})10^{-3}(-10^{-4})10^{-4}(-10^{-5})10^{-5}(-10^{-6})10^{-6}$$

F	N	1	2	3	4	5	6	7
1E-01		6.632	7.737	8.282	8.633	8.888	9.086	9.247
9E-02		6.827	7.893	8.420	8.761	9.009	9.202	9.359
8E-02		7.034	8.059	8.569	8.900	9.140	9.328	9.480
7E-02		7.258	8.241	8.732	9.051	9.284	9.466	9.614
6E-02		7.503	8.440	8.912	9.219	9.443	9.619	9.762
5E-02		7.775	8.664	9.114	9.408	9.623	9.792	9.930
4E-02		8.087	8.923	9.349	9.628	9.834	9.995	10.126
3E-02		8.459	9.235	9.633	9.896	10.089	10.241	10.366
2E-02		8.934	9.638	10.003	10.245	10.424	10.566	10.681
1E-02		9.643	10.250	10.569	10.783	10.942	11.057	11.171
9E-03		9.741	10.335	10.649	10.859	11.015	11.138	11.240
8E-03		9.848	10.429	10.737	10.942	11.095	11.217	11.317
7E-03		9.967	10.533	10.834	11.035	11.185	11.304	11.402
6E-03		10.100	10.650	10.943	11.139	11.286	11.402	11.498
5E-03		10.252	10.785	11.069	11.260	11.402	11.516	11.609
4E-03		10.431	10.944	11.218	11.403	11.541	11.650	11.741
3E-03		10.651	11.140	11.403	11.580	11.713	11.818	11.905
2E-03		10.944	11.403	11.651	11.819	11.944	12.044	12.127
1E-03		11.404	11.819	12.044	12.198	12.313	12.405	12.481
9E-04		11.469	11.879	12.101	12.253	12.366	12.457	12.533
8E-04		11.542	11.945	12.164	12.313	12.425	12.515	12.589
7E-04		11.622	12.018	12.234	12.381	12.491	12.580	12.653
6E-04		11.714	12.101	12.313	12.457	12.566	12.653	12.725
5E-04		11.819	12.198	12.405	12.546	12.653	12.738	12.809
4E-04		11.945	12.313	12.515	12.653	12.757	12.840	12.909
3E-04		12.101	12.457	12.653	12.787	12.887	12.968	13.035
2E-04		12.313	12.653	12.840	12.968	13.065	13.142	13.207
1E-04		12.653	12.968	13.142	13.262	13.352	13.425	13.485
9E-05		12.702	13.014	13.187	13.305	13.395	13.466	13.526
8E-05		12.757	13.065	13.235	13.352	13.441	13.512	13.571
7E-05		12.818	13.122	13.290	13.406	13.493	13.564	13.622
6E-05		12.887	13.187	13.352	13.466	13.553	13.622	13.680
5E-05		12.968	13.262	13.425	13.537	13.622	13.690	13.747
4E-05		13.065	13.352	13.512	13.622	13.706	13.772	13.828
3E-05		13.187	13.466	13.622	13.729	13.811	13.876	13.931
2E-05		13.352	13.622	13.772	13.876	13.955	14.018	14.071
1E-05		13.622	13.876	14.018	14.116	14.190	14.250	14.300
9E-06		13.662	13.913	14.054	14.151	14.225	14.285	14.334
8E-06		13.706	13.955	14.094	14.190	14.264	14.323	14.372
7E-06		13.755	14.001	14.139	14.234	14.307	14.365	14.414
6E-06		13.811	14.054	14.190	14.285	14.356	14.414	14.462
5E-06		13.876	14.116	14.250	14.343	14.414	14.471	14.518
4E-06		13.955	14.190	14.323	14.414	14.484	14.540	14.586
3E-06		14.054	14.285	14.414	14.503	14.572	14.627	14.672
2E-06		14.190	14.414	14.540	14.627	14.693	14.746	14.791
1E-06		14.414	14.627	14.746	14.829	14.893	14.944	14.986

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F	N	8	9	10	20	30	40	50
1E-01	9.382	9.497	9.598	10.211	10.533	10.749	10.909	
9E-02	9.490	9.603	9.702	10.301	10.617	10.829	10.986	
8E-02	9.608	9.718	9.815	10.400	10.709	10.916	11.070	
7E-02	9.738	9.845	9.938	10.508	10.810	11.013	11.163	
6E-02	9.882	9.985	10.076	10.630	10.924	11.121	11.268	
5E-02	10.046	10.145	10.233	10.768	11.053	11.245	11.388	
4E-02	10.237	10.333	10.416	10.931	11.206	11.391	11.530	
3E-02	10.471	10.562	10.641	11.131	11.394	11.572	11.705	
2E-02	10.779	10.864	10.938	11.398	11.646	11.813	11.939	
1E-02	11.258	11.334	11.401	11.816	12.042	12.195	12.311	
9E-03	11.326	11.401	11.467	11.876	12.099	12.251	12.364	
8E-03	11.401	11.475	11.540	11.942	12.162	12.311	12.424	
7E-03	11.485	11.557	11.620	12.016	12.232	12.379	12.490	
6E-03	11.579	11.650	11.712	12.100	12.312	12.456	12.565	
5E-03	11.688	11.757	11.818	12.197	12.404	12.545	12.652	
4E-03	11.818	11.885	11.944	12.312	12.514	12.652	12.756	
3E-03	11.980	12.044	12.101	12.457	12.652	12.786	12.887	
2E-03	12.198	12.259	12.313	12.653	12.840	12.968	13.065	
1E-03	12.546	12.603	12.653	12.968	13.142	13.262	13.352	
9E-04	12.597	12.653	12.702	13.014	13.186	13.305	13.394	
8E-04	12.653	12.708	12.757	13.065	13.235	13.352	13.441	
7E-04	12.715	12.770	12.818	13.122	13.290	13.406	13.493	
6E-04	12.787	12.840	12.887	13.186	13.352	13.466	13.553	
5E-04	12.869	12.922	12.968	13.262	13.425	13.537	13.622	
4E-04	12.968	13.019	13.065	13.352	13.512	13.622	13.705	
3E-04	13.092	13.142	13.187	13.466	13.622	13.729	13.811	
2E-04	13.262	13.310	13.352	13.622	13.772	13.876	13.955	
1E-04	13.537	13.582	13.622	13.876	14.018	14.116	14.190	
9E-05	13.577	13.622	13.662	13.913	14.054	14.151	14.225	
8E-05	13.622	13.666	13.706	13.955	14.094	14.190	14.264	
7E-05	13.672	13.716	13.755	14.001	14.139	14.234	14.307	
6E-05	13.729	13.772	13.811	14.054	14.190	14.285	14.356	
5E-05	13.796	13.838	13.876	14.116	14.250	14.343	14.414	
4E-05	13.876	13.918	13.955	14.190	14.323	14.414	14.484	
3E-05	13.977	14.018	14.054	14.285	14.414	14.503	14.572	
2E-05	14.116	14.155	14.190	14.414	14.540	14.627	14.693	
1E-05	14.343	14.381	14.414	14.627	14.746	14.829	14.893	
9E-06	14.377	14.414	14.447	14.658	14.777	14.859	14.922	
8E-06	14.414	14.451	14.484	14.693	14.811	14.893	14.955	
7E-06	14.456	14.492	14.525	14.732	14.849	14.930	14.992	
6E-06	14.503	14.540	14.572	14.777	14.893	14.973	15.034	
5E-06	14.559	14.595	14.627	14.829	14.944	15.023	15.083	
4E-06	14.627	14.662	14.693	14.893	15.005	15.083	15.143	
3E-06	14.712	14.746	14.777	14.973	15.083	15.160	15.219	
2E-06	14.829	14.863	14.893	15.083	15.191	15.266	15.324	
1E-06	15.023	15.055	15.083	15.266	15.370	15.442	15.497	

F	N	60	70	80	90	100	200	300
1E-01		11.035	11.139	11.227	11.304	11.371	11.789	12.016
9E-02		11.110	11.213	11.299	11.374	11.441	11.852	12.076
8E-02		11.192	11.293	11.378	11.452	11.517	11.922	12.142
7E-02		11.283	11.381	11.465	11.537	11.601	11.998	12.215
6E-02		11.385	11.481	11.562	11.633	11.696	12.085	12.298
5E-02		11.501	11.595	11.675	11.744	11.804	12.185	12.393
4E-02		11.639	11.730	11.807	11.874	11.933	12.303	12.505
3E-02		11.810	11.898	11.972	12.036	12.093	12.450	12.646
2E-02		12.039	12.122	12.193	12.254	12.308	12.648	12.836
1E-02		12.403	12.479	12.544	12.601	12.651	12.966	13.140
9E-03		12.455	12.531	12.595	12.651	12.700	13.012	13.185
8E-03		12.513	12.588	12.651	12.706	12.755	13.063	13.234
7E-03		12.578	12.651	12.714	12.768	12.816	13.120	13.289
6E-03		12.652	12.724	12.785	12.839	12.886	13.185	13.351
5E-03		12.737	12.808	12.868	12.921	12.967	13.261	13.424
4E-03		12.839	12.908	12.967	13.019	13.064	13.352	13.511
3E-03		12.968	13.035	13.092	13.142	13.186	13.466	13.622
2E-03		13.142	13.206	13.262	13.310	13.352	13.622	13.772
1E-03		13.425	13.485	13.537	13.582	13.622	13.876	14.018
9E-04		13.466	13.526	13.577	13.622	13.662	13.913	14.054
8E-04		13.512	13.571	13.622	13.666	13.705	13.955	14.094
7E-04		13.563	13.622	13.672	13.716	13.755	14.001	14.139
6E-04		13.622	13.680	13.729	13.772	13.811	14.054	14.190
5E-04		13.690	13.747	13.796	13.838	13.876	14.116	14.250
4E-04		13.772	13.828	13.876	13.918	13.955	14.190	14.323
3E-04		13.876	13.931	13.977	14.018	14.054	14.285	14.414
2E-04		14.018	14.071	14.116	14.155	14.190	14.414	14.540
1E-04		14.250	14.300	14.343	14.381	14.414	14.627	14.746
9E-05		14.285	14.334	14.377	14.414	14.447	14.658	14.777
8E-05		14.323	14.372	14.414	14.451	14.484	14.693	14.811
7E-05		14.365	14.414	14.456	14.492	14.525	14.732	14.849
6E-05		14.414	14.462	14.503	14.540	14.572	14.777	14.893
5E-05		14.471	14.518	14.559	14.595	14.627	14.829	14.944
4E-05		14.540	14.586	14.627	14.662	14.693	14.893	15.005
3E-05		14.627	14.672	14.712	14.746	14.777	14.973	15.083
2E-05		14.746	14.791	14.829	14.863	14.893	15.083	15.191
1E-05		14.944	14.986	15.023	15.055	15.083	15.266	15.370
9E-06		14.973	15.015	15.052	15.083	15.112	15.293	15.396
8E-06		15.005	15.047	15.083	15.115	15.143	15.324	15.426
7E-06		15.042	15.083	15.119	15.151	15.178	15.357	15.459
6E-06		15.083	15.125	15.160	15.191	15.219	15.396	15.497
5E-06		15.132	15.173	15.208	15.239	15.266	15.442	15.541
4E-06		15.191	15.232	15.266	15.297	15.324	15.497	15.595
3E-06		15.266	15.306	15.340	15.370	15.396	15.567	15.663
2E-06		15.370	15.409	15.442	15.471	15.497	15.663	15.758
1E-06		15.541	15.578	15.610	15.638	15.663	15.824	15.915

54446

F	N	400	500	600	700	800	900	1000
1E-01		12.171	12.287	12.379	12.456	12.521	12.578	12.628
9E-02		12.229	12.343	12.434	12.510	12.575	12.631	12.681
8E-02		12.292	12.405	12.495	12.570	12.634	12.689	12.738
7E-02		12.363	12.474	12.562	12.636	12.699	12.753	12.802
6E-02		12.442	12.551	12.639	12.711	12.773	12.826	12.874
5E-02		12.534	12.641	12.726	12.797	12.858	12.910	12.957
4E-02		12.643	12.748	12.831	12.900	12.959	13.011	13.056
3E-02		12.780	12.881	12.962	13.029	13.086	13.136	13.180
2E-02		12.964	13.061	13.138	13.203	13.258	13.306	13.348
1E-02		13.260	13.350	13.423	13.484	13.535	13.580	13.620
9E-03		13.303	13.393	13.465	13.525	13.576	13.620	13.660
8E-03		13.351	13.440	13.511	13.570	13.621	13.665	13.704
7E-03		13.404	13.492	13.562	13.621	13.671	13.715	13.753
6E-03		13.465	13.552	13.621	13.679	13.728	13.771	13.810
5E-03		13.536	13.621	13.689	13.746	13.795	13.838	13.875
4E-03		13.621	13.705	13.772	13.828	13.875	13.917	13.954
3E-03		13.729	13.810	13.876	13.930	13.977	14.017	14.054
2E-03		13.876	13.954	14.018	14.070	14.116	14.155	14.190
1E-03		14.116	14.190	14.250	14.300	14.343	14.381	14.414
9E-04		14.151	14.225	14.284	14.334	14.377	14.414	14.447
8E-04		14.190	14.264	14.322	14.372	14.414	14.451	14.483
7E-04		14.234	14.307	14.365	14.414	14.456	14.492	14.525
6E-04		14.285	14.356	14.414	14.462	14.503	14.540	14.572
5E-04		14.343	14.414	14.471	14.518	14.559	14.595	14.626
4E-04		14.414	14.483	14.540	14.586	14.627	14.662	14.693
3E-04		14.503	14.572	14.627	14.672	14.712	14.746	14.777
2E-04		14.627	14.693	14.746	14.791	14.829	14.863	14.893
1E-04		14.829	14.893	14.944	14.986	15.023	15.055	15.083
9E-05		14.859	14.922	14.973	15.015	15.052	15.083	15.112
8E-05		14.893	14.955	15.005	15.047	15.083	15.115	15.143
7E-05		14.930	14.992	15.042	15.083	15.119	15.151	15.178
6E-05		14.973	15.034	15.083	15.125	15.160	15.191	15.219
5E-05		15.023	15.083	15.132	15.173	15.208	15.239	15.266
4E-05		15.083	15.143	15.191	15.232	15.266	15.297	15.324
3E-05		15.160	15.219	15.266	15.306	15.340	15.370	15.396
2E-05		15.266	15.324	15.370	15.409	15.442	15.471	15.497
1E-05		15.442	15.497	15.541	15.578	15.610	15.638	15.663
9E-06		15.468	15.523	15.567	15.604	15.635	15.663	15.688
8E-06		15.497	15.551	15.595	15.632	15.663	15.691	15.716
7E-06		15.529	15.583	15.627	15.663	15.695	15.722	15.747
6E-06		15.567	15.620	15.663	15.700	15.731	15.758	15.782
5E-06		15.610	15.663	15.706	15.742	15.773	15.800	15.824
4E-06		15.663	15.716	15.758	15.793	15.824	15.850	15.874
3E-06		15.731	15.782	15.824	15.859	15.889	15.915	15.938
2E-06		15.824	15.874	15.915	15.949	15.978	16.004	16.027
1E-06		15.978	16.027	16.066	16.099	16.128	16.153	16.175

Table II

Detection Probability as a Function of False
Alarm Probability, Signal-to-Noise Ratio and
the Number of "OR" Circuits.

$$N = 1 (1) 10 (10) 100 (100) 1500$$

$$F = 10^{-1} (-10^{-2}) 10^{-2} (-10^{-3}) 10^{-3} (-10^{-4}) 10^{-4} (-10^{-5}) 10^{-5} (-10^{-6}) 10^{-6}$$

$$20 \log \alpha = 0 (1) 19$$

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FROM COPY FURNISHED TO DDC

N= 1

DETECTION PROBABILITY

F	0DB	1DB	2DB	3DB	4DB	5DB	6DB	7DB	8DB	9DB
1E-01	.218	.248	.287	.334	.392	.461	.541	.629	.722	.811
9E-02	.202	.232	.269	.315	.372	.440	.520	.610	.705	.797
8E-02	.186	.214	.250	.295	.350	.418	.497	.588	.685	.781
7E-02	.169	.196	.230	.273	.327	.393	.473	.564	.663	.762
6E-02	.151	.177	.209	.250	.302	.367	.445	.536	.637	.740
5E-02	.133	.156	.186	.225	.275	.337	.414	.505	.607	.714
4E-02	.113	.134	.162	.197	.244	.303	.377	.467	.571	.682
3E-02	.091	.110	.134	.166	.209	.264	.334	.421	.525	.640
2E-02	.068	.083	.103	.130	.166	.215	.279	.362	.463	.581
1E-02	.040	.051	.065	.084	.112	.150	.203	.274	.368	.483
9E-03	.037	.047	.060	.079	.105	.142	.193	.262	.354	.469
8E-03	.034	.043	.056	.073	.098	.133	.182	.250	.340	.453
7E-03	.031	.039	.051	.067	.090	.124	.171	.236	.324	.436
6E-03	.027	.035	.046	.061	.082	.114	.158	.221	.306	.417
5E-03	.024	.031	.040	.054	.074	.103	.144	.204	.286	.394
4E-03	.020	.026	.034	.047	.064	.091	.129	.185	.263	.367
3E-03	.016	.021	.028	.039	.054	.077	.111	.162	.235	.335
2E-03	.012	.016	.021	.029	.042	.061	.090	.134	.200	.292
1E-03	.007	.009	.013	.018	.027	.041	.062	.096	.149	.229
9E-04	.006	.009	.012	.017	.025	.038	.059	.091	.143	.220
8E-04	.006	.008	.011	.016	.023	.036	.055	.086	.136	.211
7E-04	.005	.007	.010	.014	.021	.033	.051	.081	.128	.201
6E-04	.005	.006	.009	.013	.019	.030	.047	.075	.119	.189
5E-04	.004	.005	.008	.011	.017	.027	.042	.068	.110	.177
4E-04	.003	.005	.007	.010	.015	.023	.037	.061	.100	.162
3E-04	.003	.004	.005	.008	.012	.020	.032	.052	.087	.145
2E-04	.002	.003	.004	.006	.009	.015	.025	.042	.072	.123
1E-04	.001	.002	.002	.004	.006	.010	.017	.029	.052	.092
9E-05	.001	.001	.002	.003	.005	.009	.016	.028	.049	.088
8E-05	.001	.001	.002	.003	.005	.008	.015	.026	.046	.084
7E-05	.001	.001	.002	.003	.005	.008	.014	.024	.044	.079
6E-05	.001	.001	.002	.003	.004	.007	.012	.022	.040	.074
5E-05	.001	.001	.001	.002	.004	.006	.011	.020	.037	.068
4E-05	.001	.001	.001	.002	.003	.005	.010	.018	.033	.062
3E-05	.000	.001	.001	.002	.003	.004	.008	.015	.028	.054
2E-05	.000	.000	.001	.001	.002	.003	.006	.012	.023	.045
1E-05	.000	.000	.000	.001	.001	.002	.004	.008	.016	.033
9E-06	.000	.000	.000	.001	.001	.002	.004	.008	.015	.031
8E-06	.000	.000	.000	.001	.001	.002	.004	.007	.014	.029
7E-06	.000	.000	.000	.001	.001	.002	.003	.006	.013	.027
6E-06	.000	.000	.000	.000	.001	.002	.003	.006	.012	.026
5E-06	.000	.000	.000	.000	.001	.001	.003	.005	.011	.023
4E-06	.000	.000	.000	.000	.001	.001	.002	.005	.010	.021
3E-06	.000	.000	.000	.000	.001	.001	.002	.004	.008	.018
2E-06	.000	.000	.000	.000	.000	.001	.001	.003	.007	.015
1E-06	.000	.000	.000	.000	.000	.000	.001	.002	.005	.010

N= 1

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.887	.944	.978	.993	.9991	1.0001	1.0001	1.0001	1.0001	1.000
9E-02	.877	.938	.975	.992	.9981	1.0001	1.0001	1.0001	1.0001	1.000
8E-02	.866	.931	.971	.991	.9981	1.0001	1.0001	1.0001	1.0001	1.000
7E-02	.852	.922	.967	.990	.9981	1.0001	1.0001	1.0001	1.0001	1.000
6E-02	.836	.912	.962	.988	.9971	1.0001	1.0001	1.0001	1.0001	1.000
5E-02	.815	.898	.955	.985	.9971	1.0001	1.0001	1.0001	1.0001	1.000
4E-02	.790	.881	.945	.981	.996	.9991	1.0001	1.0001	1.0001	1.000
3E-02	.755	.857	.932	.975	.994	.9991	1.0001	1.0001	1.0001	1.000
2E-02	.704	.819	.909	.965	.991	.9981	1.0001	1.0001	1.0001	1.000
1E-02	.615	.748	.863	.942	.982	.9971	1.0001	1.0001	1.0001	1.000
9E-03	.601	.737	.855	.937	.981	.9961	1.0001	1.0001	1.0001	1.000
8E-03	.586	.724	.846	.932	.979	.9961	1.0001	1.0001	1.0001	1.000
7E-03	.569	.709	.835	.927	.977	.995	.9991	1.0001	1.0001	1.000
6E-03	.549	.691	.822	.919	.974	.994	.9991	1.0001	1.0001	1.000
5E-03	.526	.671	.807	.910	.970	.994	.9991	1.0001	1.0001	1.000
4E-03	.498	.645	.787	.899	.965	.992	.9991	1.0001	1.0001	1.000
3E-03	.464	.612	.761	.882	.958	.990	.9991	1.0001	1.0001	1.000
2E-03	.416	.566	.723	.857	.946	.986	.9981	1.0001	1.0001	1.000
1E-03	.342	.488	.654	.809	.921	.978	.9961	1.0001	1.0001	1.000
9E-04	.332	.477	.643	.801	.917	.977	.9961	1.0001	1.0001	1.000
8E-04	.320	.464	.631	.792	.912	.975	.9961	1.0001	1.0001	1.000
7E-04	.307	.450	.618	.782	.906	.973	.9951	1.0001	1.0001	1.000
6E-04	.293	.434	.602	.769	.899	.970	.9951	1.0001	1.0001	1.000
5E-04	.277	.415	.583	.755	.890	.966	.994	.9991	1.0001	1.000
4E-04	.258	.393	.561	.736	.879	.962	.993	.9991	1.0001	1.000
3E-04	.235	.365	.532	.712	.863	.956	.991	.9991	1.0001	1.000
2E-04	.205	.327	.491	.676	.840	.945	.989	.9991	1.0001	1.000
1E-04	.160	.269	.425	.614	.796	.924	.983	.9981	1.0001	1.000
9E-05	.154	.261	.415	.605	.789	.921	.982	.9981	1.0001	1.000
8E-05	.148	.252	.405	.594	.781	.916	.980	.9981	1.0001	1.000
7E-05	.141	.243	.393	.582	.772	.912	.979	.9971	1.0001	1.000
6E-05	.133	.232	.379	.568	.761	.906	.977	.9971	1.0001	1.000
5E-05	.124	.219	.363	.551	.748	.899	.975	.9971	1.0001	1.000
4E-05	.114	.204	.345	.531	.732	.889	.971	.9961	1.0001	1.000
3E-05	.102	.187	.321	.506	.710	.877	.967	.9951	1.0001	1.000
2E-05	.087	.164	.290	.470	.679	.858	.960	.9941	1.0001	1.000
1E-05	.066	.130	.241	.412	.624	.822	.945	.991	.9991	1.000
9E-06	.063	.125	.234	.403	.616	.816	.943	.990	.9991	1.000
8E-06	.060	.120	.227	.394	.606	.809	.940	.990	.9991	1.000
7E-06	.057	.114	.219	.383	.595	.802	.937	.989	.9991	1.000
6E-06	.053	.108	.209	.371	.583	.793	.933	.988	.9991	1.000
5E-06	.049	.102	.199	.357	.568	.782	.928	.987	.9991	1.000
4E-06	.045	.094	.186	.340	.550	.768	.921	.985	.9991	1.000
3E-06	.040	.084	.171	.319	.527	.750	.912	.983	.9991	1.000
2E-06	.033	.073	.151	.291	.495	.724	.899	.979	.9981	1.000
1E-06	.024	.056	.122	.246	.442	.677	.873	.972	.9971	1.000

Form 11131U Continuous Interfered J-3 Model 3000-10 Form 11131U, Inc.

N= 2

DETECTION PROBABILITY

CCM 1412 U Continuous Interfold by Mod-e Business Forms, Inc.

N= 2

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.828	.905	.958	.986	.997	1.000	1.000	1.000	1.000	1.000
9E-02	.815	.897	.954	.984	.996	.999	1.000	1.000	1.000	1.000
8E-02	.801	.887	.949	.982	.996	.999	1.000	1.000	1.000	1.000
7E-02	.784	.876	.942	.980	.995	.999	1.000	1.000	1.000	1.000
6E-02	.764	.862	.935	.976	.994	.999	1.000	1.000	1.000	1.000
5E-02	.741	.845	.925	.972	.993	.999	1.000	1.000	1.000	1.000
4E-02	.711	.824	.912	.966	.991	.998	1.000	1.000	1.000	1.000
3E-02	.673	.794	.893	.957	.988	.998	1.000	1.000	1.000	1.000
2E-02	.619	.751	.864	.942	.983	.997	1.000	1.000	1.000	1.000
1E-02	.529	.673	.808	.911	.970	.994	.999	1.000	1.000	1.000
9E-03	.515	.661	.799	.906	.968	.993	.999	1.000	1.000	1.000
8E-03	.501	.647	.788	.899	.965	.992	.999	1.000	1.000	1.000
7E-03	.484	.632	.776	.892	.962	.991	.999	1.000	1.000	1.000
6E-03	.465	.614	.762	.883	.958	.990	.999	1.000	1.000	1.000
5E-03	.444	.593	.745	.872	.953	.989	.998	1.000	1.000	1.000
4E-03	.418	.567	.723	.858	.946	.986	.998	1.000	1.000	1.000
3E-03	.385	.534	.695	.838	.936	.983	.998	1.000	1.000	1.000
2E-03	.343	.489	.654	.809	.921	.978	.996	1.000	1.000	1.000
1E-03	.277	.415	.584	.755	.890	.967	.994	.999	1.000	1.000
9E-04	.268	.405	.573	.746	.885	.964	.994	.999	1.000	1.000
8E-04	.258	.393	.561	.736	.879	.962	.993	.999	1.000	1.000
7E-04	.247	.380	.547	.725	.872	.959	.992	.999	1.000	1.000
6E-04	.235	.365	.532	.712	.864	.956	.991	.999	1.000	1.000
5E-04	.221	.348	.514	.696	.853	.951	.990	.999	1.000	1.000
4E-04	.205	.328	.492	.676	.840	.945	.989	.999	1.000	1.000
3E-04	.185	.303	.464	.651	.823	.937	.986	.999	1.000	1.000
2E-04	.160	.270	.425	.614	.796	.924	.983	.998	1.000	1.000
1E-04	.124	.219	.363	.552	.748	.899	.975	.997	1.000	1.000
9E-05	.119	.212	.354	.542	.740	.894	.973	.996	1.000	1.000
8E-05	.114	.204	.345	.531	.732	.889	.971	.996	1.000	1.000
7E-05	.108	.196	.334	.520	.722	.884	.969	.996	1.000	1.000
6E-05	.102	.187	.321	.506	.710	.877	.967	.995	1.000	1.000
5E-05	.095	.176	.307	.490	.696	.868	.964	.995	1.000	1.000
4E-05	.087	.164	.290	.470	.679	.858	.960	.994	1.000	1.000
3E-05	.078	.149	.269	.446	.656	.843	.954	.993	1.000	1.000
2E-05	.066	.130	.241	.412	.624	.822	.945	.991	1.000	1.000
1E-05	.049	.102	.199	.357	.568	.782	.928	.987	.999	1.000
9E-06	.047	.098	.193	.349	.560	.775	.925	.986	.999	1.000
8E-06	.045	.094	.186	.340	.550	.768	.921	.985	.999	1.000
7E-06	.042	.089	.179	.330	.540	.760	.917	.984	.999	1.000
6E-06	.040	.084	.171	.319	.527	.750	.912	.983	.999	1.000
5E-06	.037	.079	.162	.306	.513	.738	.906	.981	.998	1.000
4E-06	.033	.073	.151	.291	.495	.724	.899	.979	.998	1.000
3E-06	.029	.065	.139	.272	.473	.705	.888	.976	.998	1.000
2E-06	.024	.056	.122	.246	.442	.677	.873	.972	.997	1.000
1E-06	.018	.042	.097	.207	.390	.629	.843	.962	.996	1.000

~~N=~~ 3

DETECTION PROBABILITY

	F	0DB	1DB	2DB	3DB	4DB	5DB	6DB	7DB	8DB	9DB
	1E-01	.162	.181	.205	.236	.278	.331	.398	.481	.578	.683
	9E-02	.149	.166	.190	.220	.260	.312	.379	.461	.559	.666
	8E-02	.135	.152	.174	.203	.242	.293	.358	.440	.537	.647
	7E-02	.121	.137	.157	.185	.222	.272	.335	.416	.514	.625
	6E-02	.106	.121	.140	.167	.202	.249	.311	.390	.488	.600
	5E-02	.092	.105	.123	.147	.180	.225	.284	.362	.458	.572
	4E-02	.076	.088	.104	.126	.156	.198	.254	.329	.424	.533
	3E-02	.060	.070	.084	.103	.130	.168	.220	.290	.382	.495
	2E-02	.043	.051	.062	.078	.100	.133	.178	.242	.328	.438
	1E-02	.024	.029	.037	.048	.064	.088	.124	.176	.250	.351
	9E-03	.022	.027	.034	.044	.060	.083	.117	.167	.240	.339
	8E-03	.020	.025	.031	.041	.055	.077	.110	.158	.228	.326
	7E-03	.018	.022	.028	.037	.051	.071	.102	.148	.216	.312
	6E-03	.016	.020	.025	.033	.046	.065	.094	.138	.203	.296
	5E-03	.014	.017	.022	.029	.041	.058	.085	.126	.188	.277
	4E-03	.011	.014	.018	.025	.035	.051	.075	.113	.171	.256
	3E-03	.009	.011	.015	.020	.029	.043	.064	.098	.151	.231
	2E-03	.006	.008	.011	.015	.022	.033	.051	.080	.126	.198
	1E-03	.004	.005	.006	.009	.014	.021	.034	.056	.092	.151
	9E-04	.003	.004	.006	.009	.013	.020	.032	.053	.088	.145
	8E-04	.003	.004	.005	.008	.012	.019	.030	.050	.083	.138
	7E-04	.003	.004	.005	.007	.011	.017	.028	.046	.078	.131
	6E-04	.002	.003	.004	.006	.010	.016	.025	.043	.073	.123
	5E-04	.002	.003	.004	.006	.009	.014	.023	.039	.067	.114
	4E-04	.002	.002	.003	.005	.007	.012	.020	.034	.060	.104
	3E-04	.001	.002	.003	.004	.006	.010	.017	.029	.052	.092
	2E-04	.001	.001	.002	.003	.005	.008	.013	.024	.043	.077
	1E-04	.001	.001	.001	.002	.003	.005	.009	.016	.030	.057
	9E-05	.000	.001	.001	.002	.003	.005	.008	.015	.028	.054
	8E-05	.000	.001	.001	.001	.002	.004	.008	.014	.027	.051
	7E-05	.000	.001	.001	.001	.002	.004	.007	.013	.025	.048
	6E-05	.000	.000	.001	.001	.002	.003	.006	.012	.023	.045
	5E-05	.000	.000	.001	.001	.002	.003	.006	.011	.021	.041
	4E-05	.000	.000	.001	.001	.001	.003	.005	.009	.019	.037
	3E-05	.000	.000	.000	.001	.001	.002	.004	.008	.016	.033
	2E-05	.000	.000	.000	.001	.001	.002	.003	.006	.013	.027
	1E-05	.000	.000	.000	.000	.001	.001	.002	.004	.009	.019
	9E-06	.000	.000	.000	.000	.001	.001	.002	.004	.008	.018
	8E-06	.000	.000	.000	.000	.000	.001	.002	.004	.008	.017
	7E-06	.000	.000	.000	.000	.000	.001	.002	.003	.007	.016
	6E-06	.000	.000	.000	.000	.000	.001	.001	.003	.007	.015
	5E-06	.000	.000	.000	.000	.000	.001	.001	.003	.006	.014
	4E-06	.000	.000	.000	.000	.000	.001	.001	.002	.005	.012
	3E-06	.000	.000	.000	.000	.000	.000	.001	.002	.005	.010
	2E-06	.000	.000	.000	.000	.000	.000	.001	.002	.004	.009
	1E-06	.000	.000	.000	.000	.000	.000	.000	.001	.002	.006

N= 3

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.788	.878	.943	.980	.995	.999	1.000	1.000	1.000	1.000
9E-02	.774	.868	.937	.977	.994	.999	1.000	1.000	1.000	1.000
8E-02	.758	.857	.931	.975	.994	.999	1.000	1.000	1.000	1.000
7E-02	.740	.844	.923	.971	.992	.999	1.000	1.000	1.000	1.000
6E-02	.719	.828	.914	.967	.991	.999	1.000	1.000	1.000	1.000
5E-02	.694	.810	.902	.961	.989	.998	1.000	1.000	1.000	1.000
4E-02	.663	.786	.887	.954	.987	.998	1.000	1.000	1.000	1.000
3E-02	.624	.754	.866	.943	.983	.997	1.000	1.000	1.000	1.000
2E-02	.569	.708	.834	.926	.976	.995	.999	1.000	1.000	1.000
1E-02	.480	.627	.773	.890	.961	.991	.999	1.000	1.000	1.000
9E-03	.467	.615	.763	.883	.958	.990	.999	1.000	1.000	1.000
8E-03	.453	.601	.752	.876	.955	.989	.999	1.000	1.000	1.000
7E-03	.437	.586	.739	.868	.951	.988	.998	1.000	1.000	1.000
6E-03	.419	.568	.724	.858	.946	.987	.998	1.000	1.000	1.000
5E-03	.398	.547	.706	.846	.940	.985	.998	1.000	1.000	1.000
4E-03	.374	.522	.684	.830	.932	.982	.997	1.000	1.000	1.000
3E-03	.343	.489	.655	.809	.921	.978	.996	1.000	1.000	1.000
2E-03	.304	.446	.613	.778	.904	.972	.995	1.000	1.000	1.000
1E-03	.243	.375	.543	.721	.869	.958	.992	.999	1.000	1.000
9E-04	.235	.365	.532	.712	.864	.956	.991	.999	1.000	1.000
8E-04	.226	.354	.520	.702	.857	.953	.991	.999	1.000	1.000
7E-04	.216	.342	.507	.690	.849	.949	.990	.999	1.000	1.000
6E-04	.205	.328	.492	.676	.840	.945	.989	.999	1.000	1.000
5E-04	.192	.312	.474	.660	.829	.940	.987	.999	1.000	1.000
4E-04	.178	.293	.452	.640	.815	.933	.985	.998	1.000	1.000
3E-04	.161	.270	.425	.614	.796	.924	.983	.998	1.000	1.000
2E-04	.138	.239	.388	.578	.769	.910	.978	.997	1.000	1.000
1E-04	.107	.193	.330	.515	.718	.881	.969	.996	1.000	1.000
9E-05	.102	.187	.321	.506	.710	.877	.967	.995	1.000	1.000
8E-05	.098	.180	.312	.495	.701	.871	.965	.995	1.000	1.000
7E-05	.093	.172	.302	.484	.691	.865	.963	.995	1.000	1.000
6E-05	.087	.164	.290	.470	.679	.858	.960	.994	1.000	1.000
5E-05	.081	.154	.277	.455	.665	.849	.956	.993	1.000	1.000
4E-05	.074	.143	.261	.436	.647	.837	.952	.992	.999	1.000
3E-05	.066	.130	.241	.412	.624	.822	.945	.991	.999	1.000
2E-05	.056	.113	.216	.379	.591	.799	.935	.989	.999	1.000
1E-05	.041	.088	.177	.327	.536	.757	.916	.984	.999	1.000
9E-06	.040	.084	.171	.319	.527	.750	.912	.983	.999	1.000
8E-06	.038	.081	.165	.311	.518	.743	.909	.982	.998	1.000
7E-06	.035	.077	.159	.301	.507	.734	.904	.981	.998	1.000
6E-06	.033	.073	.151	.291	.495	.724	.899	.979	.998	1.000
5E-06	.031	.068	.143	.279	.481	.712	.892	.977	.998	1.000
4E-06	.028	.062	.133	.264	.464	.697	.884	.975	.998	1.000
3E-06	.024	.056	.122	.246	.442	.677	.873	.972	.997	1.000
2E-06	.020	.047	.107	.223	.411	.649	.856	.966	.996	1.000
1E-06	.015	.036	.085	.186	.362	.600	.825	.955	.995	1.000

N= 4

DETECTION PROBABILITY

F	0DB	1DB	2DB	3DB	4DB	5DB	6DB	7DB	8DB	9DB
1E-01	.152	.168	.189	.217	.254	.303	.366	.445	.541	.648
9E-02	.139	.154	.174	.201	.237	.285	.347	.426	.521	.630
8E-02	.126	.140	.159	.185	.220	.266	.327	.405	.500	.610
7E-02	.112	.126	.144	.168	.201	.246	.305	.382	.477	.588
6E-02	.099	.111	.128	.151	.182	.225	.282	.357	.451	.563
5E-02	.084	.096	.111	.132	.161	.202	.256	.329	.422	.535
4E-02	.070	.080	.093	.113	.139	.177	.228	.298	.389	.501
3E-02	.055	.063	.075	.092	.115	.149	.196	.261	.348	.459
2E-02	.039	.045	.055	.068	.088	.117	.158	.216	.297	.404
1E-02	.021	.026	.032	.041	.055	.077	.108	.156	.225	.321
9E-03	.020	.024	.030	.038	.052	.072	.102	.148	.215	.309
8E-03	.018	.022	.027	.035	.048	.067	.096	.140	.205	.297
7E-03	.016	.019	.024	.032	.044	.062	.089	.131	.193	.283
6E-03	.014	.017	.022	.029	.039	.056	.082	.121	.181	.268
5E-03	.012	.015	.019	.025	.035	.050	.074	.111	.167	.251
4E-03	.010	.012	.016	.021	.030	.044	.065	.099	.152	.231
3E-03	.008	.010	.013	.017	.025	.036	.055	.086	.134	.208
2E-03	.005	.007	.009	.013	.019	.028	.044	.070	.111	.178
1E-03	.003	.004	.005	.008	.012	.018	.029	.048	.081	.135
9E-04	.003	.004	.005	.007	.011	.017	.028	.046	.077	.129
8E-04	.003	.003	.005	.007	.010	.016	.026	.043	.073	.123
7E-04	.002	.003	.004	.006	.009	.014	.024	.040	.068	.117
6E-04	.002	.003	.004	.005	.008	.013	.022	.037	.063	.109
5E-04	.002	.002	.003	.005	.007	.012	.019	.033	.058	.101
4E-04	.001	.002	.003	.004	.006	.010	.017	.030	.052	.092
3E-04	.001	.001	.002	.003	.005	.008	.014	.025	.045	.081
2E-04	.001	.001	.002	.002	.004	.006	.011	.020	.037	.068
1E-04	.000	.001	.001	.001	.002	.004	.007	.014	.026	.050
9E-05	.000	.001	.001	.001	.002	.004	.007	.013	.025	.048
8E-05	.000	.001	.001	.001	.002	.003	.006	.012	.023	.045
7E-05	.000	.000	.001	.001	.002	.003	.006	.011	.022	.042
6E-05	.000	.000	.001	.001	.002	.003	.005	.010	.020	.039
5E-05	.000	.000	.001	.001	.001	.003	.005	.009	.018	.036
4E-05	.000	.000	.000	.001	.001	.002	.004	.008	.016	.033
3E-05	.000	.000	.000	.001	.001	.002	.003	.007	.014	.028
2E-05	.000	.000	.000	.000	.001	.001	.003	.005	.011	.023
1E-05	.000	.000	.000	.000	.000	.001	.002	.004	.008	.017
9E-06	.000	.000	.000	.000	.000	.001	.002	.003	.007	.016
8E-06	.000	.000	.000	.000	.000	.001	.001	.003	.007	.015
7E-06	.000	.000	.000	.000	.000	.001	.001	.003	.006	.014
6E-06	.000	.000	.000	.000	.000	.001	.001	.003	.006	.013
5E-06	.000	.000	.000	.000	.000	.001	.001	.002	.005	.012
4E-06	.000	.000	.000	.000	.000	.000	.001	.002	.005	.010
3E-06	.000	.000	.000	.000	.000	.000	.001	.002	.004	.009
2E-06	.000	.000	.000	.000	.000	.000	.001	.001	.003	.007
1E-06	.000	.000	.000	.000	.000	.000	.000	.001	.002	.005

N= 4

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.757	.856	.930	.974	.993	.999	1.000	1.000	1.000	1.000
9E-02	.742	.845	.924	.971	.992	.999	1.000	1.000	1.000	1.000
8E-02	.726	.833	.916	.968	.991	.999	1.000	1.000	1.000	1.000
7E-02	.707	.819	.908	.964	.990	.998	1.000	1.000	1.000	1.000
6E-02	.685	.802	.897	.959	.988	.998	1.000	1.000	1.000	1.000
5E-02	.660	.782	.884	.953	.986	.997	1.000	1.000	1.000	1.000
4E-02	.628	.757	.868	.944	.983	.997	1.000	1.000	1.000	1.000
3E-02	.589	.724	.845	.932	.978	.996	1.000	1.000	1.000	1.000
2E-02	.534	.677	.810	.912	.971	.994	.999	1.000	1.000	1.000
1E-02	.447	.595	.746	.873	.953	.989	.998	1.000	1.000	1.000
9E-03	.434	.583	.736	.866	.950	.988	.998	1.000	1.000	1.000
8E-03	.420	.569	.725	.858	.946	.987	.998	1.000	1.000	1.000
7E-03	.405	.553	.711	.849	.942	.985	.998	1.000	1.000	1.000
6E-03	.388	.536	.696	.839	.937	.983	.998	1.000	1.000	1.000
5E-03	.368	.515	.678	.826	.930	.981	.997	1.000	1.000	1.000
4E-03	.344	.490	.655	.810	.921	.978	.997	1.000	1.000	1.000
3E-03	.315	.459	.626	.788	.909	.974	.996	1.000	1.000	1.000
2E-03	.278	.416	.584	.755	.890	.967	.994	.999	1.000	1.000
1E-03	.221	.348	.514	.696	.853	.951	.990	.999	1.000	1.000
9E-04	.214	.338	.503	.687	.847	.948	.990	.999	1.000	1.000
8E-04	.205	.328	.492	.676	.840	.945	.989	.999	1.000	1.000
7E-04	.196	.316	.479	.665	.832	.942	.988	.999	1.000	1.000
6E-04	.186	.303	.464	.651	.823	.937	.986	.999	1.000	1.000
5E-04	.174	.288	.446	.634	.811	.931	.985	.998	1.000	1.000
4E-04	.161	.270	.425	.614	.796	.924	.983	.998	1.000	1.000
3E-04	.145	.248	.399	.588	.777	.914	.980	.998	1.000	1.000
2E-04	.124	.219	.363	.552	.748	.899	.975	.997	1.000	1.000
1E-04	.095	.176	.307	.490	.696	.868	.964	.995	1.000	1.000
9E-05	.091	.170	.299	.481	.688	.863	.962	.994	1.000	1.000
8E-05	.087	.164	.290	.470	.679	.858	.960	.994	1.000	1.000
7E-05	.083	.157	.280	.459	.668	.851	.957	.994	1.000	1.000
6E-05	.078	.149	.269	.446	.656	.843	.954	.993	1.000	1.000
5E-05	.072	.140	.256	.430	.642	.834	.950	.992	.999	1.000
4E-05	.066	.130	.241	.412	.624	.822	.945	.991	.999	1.000
3E-05	.058	.117	.223	.389	.601	.806	.938	.989	.999	1.000
2E-05	.049	.102	.199	.357	.568	.782	.928	.987	.999	1.000
1E-05	.037	.079	.162	.306	.513	.738	.906	.981	.998	1.000
9E-06	.035	.076	.157	.299	.505	.732	.903	.980	.998	1.000
8E-06	.033	.073	.151	.291	.495	.724	.899	.979	.998	1.000
7E-06	.031	.069	.145	.282	.485	.715	.894	.978	.998	1.000
6E-06	.029	.065	.139	.272	.473	.705	.888	.976	.998	1.000
5E-06	.027	.061	.131	.260	.459	.692	.882	.974	.997	1.000
4E-06	.024	.056	.122	.246	.442	.677	.873	.972	.997	1.000
3E-06	.021	.050	.111	.229	.420	.657	.861	.968	.997	1.000
2E-06	.018	.042	.097	.207	.390	.629	.843	.962	.996	1.000
1E-06	.013	.032	.077	.172	.342	.579	.811	.950	.994	1.000

N= 5

DETECTION PROBABILITY

F	0DB	1DB	2DB	3DB	4DB	5DB	6DB	7DB	8DB	9DB
1E-01	.145	.159	.178	.203	.237	.283	.343	.419	.512	.620
9E-02	.132	.146	.164	.188	.221	.265	.324	.400	.493	.602
8E-02	.120	.132	.149	.173	.204	.247	.304	.379	.472	.582
7E-02	.107	.118	.134	.156	.187	.228	.283	.357	.449	.560
6E-02	.093	.104	.119	.140	.168	.207	.261	.332	.424	.535
5E-02	.080	.089	.103	.122	.149	.186	.237	.306	.396	.507
4E-02	.066	.074	.086	.104	.128	.162	.210	.275	.363	.473
3E-02	.051	.058	.069	.084	.105	.136	.179	.241	.324	.432
2E-02	.036	.042	.050	.062	.080	.106	.144	.198	.275	.379
1E-02	.020	.023	.029	.037	.050	.069	.098	.141	.206	.299
9E-03	.018	.022	.027	.034	.046	.064	.092	.134	.197	.288
8E-03	.016	.020	.024	.032	.043	.060	.086	.127	.188	.276
7E-03	.014	.017	.022	.029	.039	.055	.080	.118	.177	.263
6E-03	.013	.015	.019	.026	.035	.050	.073	.110	.166	.248
5E-03	.011	.013	.017	.022	.031	.044	.066	.100	.153	.232
4E-03	.009	.011	.014	.019	.027	.039	.058	.089	.138	.214
3E-03	.007	.009	.011	.015	.022	.032	.049	.077	.122	.191
2E-03	.005	.006	.008	.011	.016	.025	.039	.062	.101	.163
1E-03	.003	.004	.005	.007	.010	.016	.026	.043	.073	.124
9E-04	.002	.003	.004	.006	.009	.015	.024	.041	.069	.118
8E-04	.002	.003	.004	.006	.009	.014	.023	.038	.066	.113
7E-04	.002	.003	.004	.005	.008	.013	.021	.036	.062	.106
6E-04	.002	.002	.003	.005	.007	.011	.019	.033	.057	.100
5E-04	.001	.002	.003	.004	.006	.010	.017	.030	.052	.092
4E-04	.001	.002	.002	.003	.005	.009	.015	.026	.047	.084
3E-04	.001	.001	.002	.003	.004	.007	.013	.022	.041	.074
2E-04	.001	.001	.001	.002	.003	.006	.010	.018	.033	.062
1E-04	.000	.001	.001	.001	.002	.004	.006	.012	.023	.045
9E-05	.000	.000	.001	.001	.002	.003	.006	.011	.022	.043
8E-05	.000	.000	.001	.001	.002	.003	.006	.011	.021	.041
7E-05	.000	.000	.001	.001	.002	.003	.005	.010	.019	.038
6E-05	.000	.000	.001	.001	.001	.002	.005	.009	.018	.036
5E-05	.000	.000	.000	.001	.001	.002	.004	.008	.016	.033
4E-05	.000	.000	.000	.001	.001	.002	.004	.007	.014	.029
3E-05	.000	.000	.000	.000	.001	.002	.003	.006	.012	.026
2E-05	.000	.000	.000	.000	.001	.001	.002	.005	.010	.021
1E-05	.000	.000	.000	.000	.000	.001	.001	.003	.007	.015
9E-06	.000	.000	.000	.000	.000	.001	.001	.003	.006	.014
8E-06	.000	.000	.000	.000	.000	.001	.001	.003	.006	.013
7E-06	.000	.000	.000	.000	.000	.001	.001	.002	.005	.012
6E-06	.000	.000	.000	.000	.000	.001	.001	.002	.005	.011
5E-06	.000	.000	.000	.000	.000	.000	.001	.002	.005	.010
4E-06	.000	.000	.000	.000	.000	.000	.001	.002	.004	.009
3E-06	.000	.000	.000	.000	.000	.000	.001	.001	.003	.008
2E-06	.000	.000	.000	.000	.000	.000	.001	.001	.003	.007
1E-06	.000	.000	.000	.000	.000	.000	.000	.001	.002	.005

N= 5

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.733	.837	.919	.969	.992	.999	1.000	1.000	1.000	1.000
9E-02	.718	.826	.912	.966	.991	.998	1.000	1.000	1.000	1.000
8E-02	.701	.813	.904	.962	.989	.998	1.000	1.000	1.000	1.000
7E-02	.681	.798	.895	.957	.988	.998	1.000	1.000	1.000	1.000
6E-02	.659	.781	.883	.952	.986	.997	1.000	1.000	1.000	1.000
5E-02	.633	.760	.870	.945	.983	.997	1.000	1.000	1.000	1.000
4E-02	.601	.734	.852	.935	.980	.996	1.000	1.000	1.000	1.000
3E-02	.561	.700	.828	.922	.975	.995	.999	1.000	1.000	1.000
2E-02	.507	.652	.791	.901	.966	.992	.999	1.000	1.000	1.000
1E-02	.421	.570	.725	.859	.946	.987	.998	1.000	1.000	1.000
9E-03	.409	.558	.715	.852	.943	.986	.998	1.000	1.000	1.000
8E-03	.396	.544	.703	.844	.939	.984	.998	1.000	1.000	1.000
7E-03	.381	.529	.690	.834	.934	.983	.997	1.000	1.000	1.000
6E-03	.364	.511	.674	.823	.929	.981	.997	1.000	1.000	1.000
5E-03	.345	.491	.655	.810	.921	.978	.997	1.000	1.000	1.000
4E-03	.322	.466	.633	.793	.912	.975	.996	1.000	1.000	1.000
3E-03	.295	.435	.603	.770	.899	.970	.995	1.000	1.000	1.000
2E-03	.259	.394	.561	.737	.879	.962	.993	.999	1.000	1.000
1E-03	.205	.328	.492	.676	.840	.945	.989	.999	1.000	1.000
9E-04	.198	.319	.482	.667	.834	.942	.988	.999	1.000	1.000
8E-04	.190	.308	.470	.657	.827	.939	.987	.999	1.000	1.000
7E-04	.181	.297	.457	.645	.818	.935	.986	.998	1.000	1.000
6E-04	.172	.284	.442	.631	.808	.930	.985	.998	1.000	1.000
5E-04	.161	.270	.425	.614	.796	.924	.983	.998	1.000	1.000
4E-04	.148	.253	.405	.594	.781	.916	.980	.998	1.000	1.000
3E-04	.133	.232	.379	.568	.761	.906	.977	.997	1.000	1.000
2E-04	.114	.205	.345	.532	.732	.889	.971	.996	1.000	1.000
1E-04	.087	.164	.290	.470	.679	.858	.960	.994	1.000	1.000
9E-05	.084	.158	.282	.461	.671	.852	.958	.994	1.000	1.000
8E-05	.080	.152	.274	.451	.661	.847	.956	.993	1.000	1.000
7E-05	.076	.145	.264	.440	.651	.840	.953	.993	1.000	1.000
6E-05	.071	.138	.254	.427	.639	.832	.950	.992	.999	1.000
5E-05	.066	.130	.241	.412	.624	.822	.945	.991	.999	1.000
4E-05	.060	.120	.227	.394	.606	.809	.940	.990	.999	1.000
3E-05	.053	.108	.209	.371	.583	.793	.933	.988	.999	1.000
2E-05	.045	.094	.186	.340	.550	.768	.921	.985	.999	1.000
1E-05	.033	.073	.151	.291	.495	.724	.899	.979	.998	1.000
9E-06	.032	.070	.147	.284	.487	.717	.895	.978	.998	1.000
8E-06	.030	.067	.141	.276	.478	.709	.891	.977	.998	1.000
7E-06	.028	.063	.136	.267	.467	.700	.886	.976	.998	1.000
6E-06	.026	.060	.129	.258	.456	.690	.880	.974	.997	1.000
5E-06	.024	.056	.122	.246	.442	.677	.873	.972	.997	1.000
4E-06	.022	.051	.113	.233	.425	.662	.864	.969	.997	1.000
3E-06	.019	.046	.103	.217	.404	.641	.852	.965	.996	1.000
2E-06	.016	.039	.090	.195	.375	.613	.833	.958	.995	1.000
1E-06	.012	.029	.071	.162	.327	.563	.800	.946	.993	1.000

N= 6

DETECTION PROBABILITY

F	0DB	1DB	2DB	3DB	4DB	5DB	6DB	7DB	8DB	9DB
1E-01	.140	.153	.170	.193	.225	.268	.324	.398	.490	.598
9E-02	.128	.140	.156	.179	.209	.251	.306	.379	.471	.579
8E-02	.115	.127	.142	.163	.193	.233	.287	.359	.450	.559
7E-02	.102	.113	.128	.148	.176	.214	.267	.337	.427	.537
6E-02	.089	.099	.113	.132	.158	.195	.245	.313	.403	.513
5E-02	.076	.085	.097	.115	.139	.174	.222	.287	.375	.484
4E-02	.063	.070	.081	.097	.119	.151	.196	.258	.343	.451
3E-02	.049	.055	.065	.078	.098	.126	.167	.225	.305	.411
2E-02	.034	.039	.047	.058	.074	.098	.133	.184	.258	.358
1E-02	.019	.022	.027	.034	.046	.063	.090	.131	.192	.281
9E-03	.017	.020	.025	.032	.042	.059	.084	.124	.184	.271
8E-03	.015	.018	.022	.029	.039	.055	.079	.117	.174	.259
7E-03	.014	.016	.020	.026	.036	.050	.073	.109	.165	.247
6E-03	.012	.014	.018	.023	.032	.045	.067	.101	.154	.233
5E-03	.010	.012	.015	.020	.028	.040	.060	.092	.142	.218
4E-03	.008	.010	.013	.017	.024	.035	.053	.082	.128	.200
3E-03	.006	.008	.010	.014	.020	.029	.045	.070	.112	.179
2E-03	.005	.006	.007	.010	.015	.022	.035	.057	.093	.152
1E-03	.002	.003	.004	.006	.009	.014	.023	.039	.067	.115
9E-04	.002	.003	.004	.006	.008	.013	.022	.037	.064	.110
8E-04	.002	.003	.004	.005	.008	.012	.020	.035	.060	.104
7E-04	.002	.002	.003	.005	.007	.011	.019	.032	.056	.099
6E-04	.002	.002	.003	.004	.006	.010	.017	.030	.052	.092
5E-04	.001	.002	.002	.004	.006	.009	.015	.027	.048	.085
4E-04	.001	.001	.002	.003	.005	.008	.013	.024	.043	.078
3E-04	.001	.001	.002	.002	.004	.007	.011	.020	.037	.068
2E-04	.001	.001	.001	.002	.003	.005	.009	.016	.030	.057
1E-04	.000	.000	.001	.001	.002	.003	.006	.011	.021	.041
9E-05	.000	.000	.001	.001	.002	.003	.005	.010	.020	.039
8E-05	.000	.000	.001	.001	.002	.003	.005	.010	.019	.037
7E-05	.000	.000	.001	.001	.001	.002	.005	.009	.017	.035
6E-05	.000	.000	.000	.001	.001	.002	.004	.008	.016	.033
5E-05	.000	.000	.000	.001	.001	.002	.004	.007	.015	.030
4E-05	.000	.000	.000	.001	.001	.002	.003	.006	.013	.027
3E-05	.000	.000	.000	.000	.001	.001	.003	.005	.011	.023
2E-05	.000	.000	.000	.000	.001	.001	.002	.004	.009	.019
1E-05	.000	.000	.000	.000	.000	.001	.001	.003	.006	.014
9E-06	.000	.000	.000	.000	.000	.001	.001	.003	.006	.013
8E-06	.000	.000	.000	.000	.000	.001	.001	.002	.005	.012
7E-06	.000	.000	.000	.000	.000	.001	.001	.002	.005	.011
6E-06	.000	.000	.000	.000	.000	.000	.001	.002	.005	.010
5E-06	.000	.000	.000	.000	.000	.000	.001	.002	.004	.010
4E-06	.000	.000	.000	.000	.000	.000	.001	.002	.004	.009
3E-06	.000	.000	.000	.000	.000	.000	.001	.001	.003	.007
2E-06	.000	.000	.000	.000	.000	.000	.000	.001	.002	.006
1E-06	.000	.000	.000	.000	.000	.000	.000	.001	.002	.004

N= 6

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.713	.822	.909	.964	.990	.9981	.0001	.0001	.0001	.000
9E-02	.697	.810	.902	.961	.989	.9981	.0001	.0001	.0001	.000
8E-02	.680	.797	.893	.957	.988	.9981	.0001	.0001	.0001	.000
7E-02	.660	.781	.883	.952	.986	.9971	.0001	.0001	.0001	.000
6E-02	.637	.763	.871	.946	.984	.9971	.0001	.0001	.0001	.000
5E-02	.611	.742	.857	.938	.981	.9961	.0001	.0001	.0001	.000
4E-02	.579	.715	.838	.928	.977	.995	.9991	.0001	.0001	.000
3E-02	.540	.680	.813	.913	.971	.994	.9991	.0001	.0001	.000
2E-02	.486	.632	.775	.891	.961	.991	.9991	.0001	.0001	.000
1E-02	.401	.549	.708	.847	.941	.985	.9981	.0001	.0001	.000
9E-03	.390	.537	.697	.839	.937	.984	.9981	.0001	.0001	.000
8E-03	.376	.524	.685	.831	.933	.982	.9971	.0001	.0001	.000
7E-03	.362	.508	.672	.821	.928	.980	.9971	.0001	.0001	.000
6E-03	.346	.491	.656	.810	.921	.978	.9971	.0001	.0001	.000
5E-03	.327	.471	.637	.796	.914	.976	.9961	.0001	.0001	.000
4E-03	.305	.447	.614	.779	.904	.972	.9951	.0001	.0001	.000
3E-03	.279	.417	.585	.755	.890	.967	.994	.9991	.0001	.000
2E-03	.244	.376	.543	.721	.869	.958	.992	.9991	.0001	.000
1E-03	.193	.312	.474	.660	.829	.940	.987	.9991	.0001	.000
9E-04	.186	.303	.464	.651	.823	.937	.986	.9991	.0001	.000
8E-04	.178	.293	.453	.640	.815	.934	.985	.9961	.0001	.000
7E-04	.170	.282	.440	.628	.807	.929	.984	.9981	.0001	.000
6E-04	.161	.270	.425	.614	.796	.924	.983	.9981	.0001	.000
5E-04	.151	.256	.409	.598	.784	.918	.981	.9981	.0001	.000
4E-04	.139	.239	.389	.578	.769	.910	.978	.9971	.0001	.000
3E-04	.124	.219	.364	.552	.748	.899	.975	.9971	.0001	.000
2E-04	.107	.193	.330	.515	.718	.881	.969	.9961	.0001	.000
1E-04	.081	.154	.277	.455	.665	.849	.956	.9931	.0001	.000
9E-05	.078	.149	.269	.446	.656	.843	.954	.9931	.0001	.000
8E-05	.074	.143	.261	.436	.647	.837	.952	.992	.9991	.000
7E-05	.070	.137	.252	.425	.636	.830	.949	.992	.9991	.000
6E-05	.066	.130	.241	.412	.624	.822	.945	.991	.9991	.000
5E-05	.061	.122	.230	.397	.609	.812	.941	.990	.9991	.000
4E-05	.056	.113	.216	.379	.591	.799	.935	.989	.9991	.000
3E-05	.049	.102	.199	.357	.568	.782	.928	.987	.9991	.000
2E-05	.041	.088	.177	.327	.536	.757	.916	.984	.9991	.000
1E-05	.031	.068	.143	.279	.481	.712	.892	.977	.9981	.000
9E-06	.029	.065	.139	.272	.473	.705	.888	.976	.9981	.000
8E-06	.028	.062	.134	.264	.464	.697	.884	.975	.9981	.000
7E-06	.026	.059	.128	.256	.453	.688	.879	.973	.9971	.000
6E-06	.024	.056	.122	.246	.442	.677	.873	.972	.9971	.000
5E-06	.022	.052	.115	.236	.428	.664	.865	.969	.9971	.000
4E-06	.020	.047	.107	.223	.411	.649	.856	.966	.9961	.000
3E-06	.018	.042	.097	.207	.390	.629	.843	.952	.9961	.000
2E-06	.015	.036	.085	.186	.362	.600	.825	.955	.9951	.000
1E-06	.011	.027	.067	.154	.316	.550	.790	.942	.9921	.000

N= 7

DETECTION PROBABILITY

F	0DB	1DB	2DB	3DB	4DB	5DB	6DB	7DB	8DB	9DB
1E-01	.136	.148	.164	.185	.215	.256	.310	.381	.471	.579
9E-02	.124	.135	.150	.171	.200	.239	.292	.363	.452	.560
8E-02	.112	.122	.136	.156	.184	.222	.273	.343	.432	.540
7E-02	.099	.109	.122	.141	.167	.203	.254	.321	.410	.518
6E-02	.086	.095	.108	.125	.150	.184	.232	.298	.385	.494
5E-02	.073	.082	.093	.109	.132	.164	.210	.273	.358	.466
4E-02	.060	.067	.077	.092	.112	.142	.185	.245	.326	.433
3E-02	.047	.053	.061	.074	.092	.118	.157	.212	.290	.393
2E-02	.033	.037	.044	.054	.069	.091	.124	.174	.244	.342
1E-02	.018	.021	.025	.032	.042	.058	.083	.122	.181	.267
9E-03	.016	.019	.023	.029	.039	.055	.079	.116	.173	.257
8E-03	.014	.017	.021	.027	.036	.051	.073	.109	.164	.246
7E-03	.013	.015	.019	.024	.033	.046	.068	.102	.155	.234
6E-03	.011	.013	.017	.022	.030	.042	.062	.094	.144	.221
5E-03	.010	.011	.014	.019	.026	.037	.056	.086	.133	.206
4E-03	.008	.009	.012	.016	.022	.032	.049	.076	.120	.189
3E-03	.006	.007	.010	.013	.018	.027	.041	.065	.105	.169
2E-03	.004	.005	.007	.009	.014	.021	.033	.053	.087	.143
1E-03	.002	.003	.004	.006	.008	.013	.021	.036	.062	.108
9E-04	.002	.003	.004	.005	.008	.012	.020	.034	.059	.103
8E-04	.002	.002	.003	.005	.007	.011	.019	.032	.056	.098
7E-04	.002	.002	.003	.004	.006	.010	.017	.030	.052	.092
6E-04	.001	.002	.003	.004	.006	.009	.016	.027	.049	.087
5E-04	.001	.002	.002	.003	.005	.008	.014	.025	.044	.080
4E-04	.001	.001	.002	.003	.004	.007	.012	.022	.040	.073
3E-04	.001	.001	.002	.002	.004	.006	.010	.019	.034	.064
2E-04	.001	.001	.001	.002	.003	.005	.008	.015	.028	.053
1E-04	.000	.000	.001	.001	.002	.003	.005	.010	.019	.039
9E-05	.000	.000	.001	.001	.001	.003	.005	.009	.018	.037
8E-05	.000	.000	.001	.001	.001	.002	.005	.009	.017	.035
7E-05	.000	.000	.000	.001	.001	.002	.004	.008	.016	.033
6E-05	.000	.000	.000	.001	.001	.002	.004	.007	.015	.030
5E-05	.000	.000	.000	.001	.001	.002	.003	.007	.013	.028
4E-05	.000	.000	.000	.000	.001	.002	.003	.006	.012	.025
3E-05	.000	.000	.000	.000	.001	.001	.002	.005	.010	.022
2E-05	.000	.000	.000	.000	.001	.001	.002	.004	.008	.018
1E-05	.000	.000	.000	.000	.000	.001	.001	.003	.006	.013
9E-06	.000	.000	.000	.000	.000	.001	.001	.002	.005	.012
8E-06	.000	.000	.000	.000	.000	.001	.001	.002	.005	.011
7E-06	.000	.000	.000	.000	.000	.000	.001	.002	.005	.010
6E-06	.000	.000	.000	.000	.000	.000	.001	.002	.004	.010
5E-06	.000	.000	.000	.000	.000	.000	.001	.002	.004	.009
4E-06	.000	.000	.000	.000	.000	.000	.001	.001	.003	.008
3E-06	.000	.000	.000	.000	.000	.000	.001	.001	.003	.007
2E-06	.000	.000	.000	.000	.000	.000	.000	.001	.002	.005
1E-06	.000	.000	.000	.000	.000	.000	.000	.001	.001	.004

N= 7

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.696	.808	.900	.960	.989	.998	1.000	1.000	1.000	1.000
9E-02	.680	.796	.892	.956	.987	.998	1.000	1.000	1.000	1.000
8E-02	.662	.782	.883	.952	.986	.997	1.000	1.000	1.000	1.000
7E-02	.642	.766	.873	.946	.984	.997	1.000	1.000	1.000	1.000
6E-02	.619	.748	.861	.940	.981	.996	1.000	1.000	1.000	1.000
5E-02	.593	.726	.845	.932	.978	.996	1.000	1.000	1.000	1.000
4E-02	.561	.699	.826	.921	.974	.995	.999	1.000	1.000	1.000
3E-02	.521	.664	.800	.906	.968	.993	.999	1.000	1.000	1.000
2E-02	.468	.614	.762	.882	.957	.990	.999	1.000	1.000	1.000
1E-02	.385	.532	.693	.836	.935	.983	.997	1.000	1.000	1.000
9E-03	.373	.520	.682	.829	.931	.982	.997	1.000	1.000	1.000
8E-03	.360	.507	.670	.820	.927	.980	.997	1.000	1.000	1.000
7E-03	.346	.492	.656	.810	.922	.978	.997	1.000	1.000	1.000
6E-03	.330	.475	.640	.798	.915	.976	.996	1.000	1.000	1.000
5E-03	.312	.455	.622	.784	.907	.973	.995	1.000	1.000	1.000
4E-03	.291	.431	.596	.766	.897	.969	.995	1.000	1.000	1.000
3E-03	.265	.401	.569	.743	.883	.964	.993	.999	1.000	1.000
2E-03	.232	.361	.528	.708	.861	.954	.991	.999	1.000	1.000
1E-03	.183	.299	.459	.647	.820	.936	.986	.998	1.000	1.000
9E-04	.176	.290	.449	.637	.813	.932	.985	.998	1.000	1.000
8E-04	.169	.281	.438	.626	.805	.929	.984	.998	1.000	1.000
7E-04	.161	.270	.426	.614	.796	.924	.983	.998	1.000	1.000
6E-04	.152	.258	.411	.600	.786	.919	.981	.998	1.000	1.000
5E-04	.142	.244	.395	.584	.773	.912	.979	.997	1.000	1.000
4E-04	.131	.228	.375	.564	.758	.904	.976	.997	1.000	1.000
3E-04	.117	.209	.350	.538	.737	.892	.972	.996	1.000	1.000
2E-04	.100	.184	.317	.502	.706	.875	.966	.995	1.000	1.000
1E-04	.076	.146	.266	.442	.652	.841	.953	.993	1.000	1.000
9E-05	.073	.141	.258	.433	.644	.835	.951	.992	.999	1.000
8E-05	.070	.136	.250	.423	.635	.829	.948	.992	.999	1.000
7E-05	.066	.130	.241	.412	.624	.822	.945	.991	.999	1.000
6E-05	.062	.123	.231	.399	.612	.813	.942	.990	.999	1.000
5E-05	.057	.115	.220	.385	.597	.803	.937	.989	.999	1.000
4E-05	.052	.107	.206	.367	.579	.790	.931	.988	.999	1.000
3E-05	.046	.096	.190	.345	.556	.772	.923	.986	.999	1.000
2E-05	.039	.083	.169	.316	.524	.747	.911	.983	.999	1.000
1E-05	.029	.064	.136	.269	.469	.701	.887	.976	.998	1.000
9E-06	.027	.061	.132	.262	.461	.694	.883	.975	.998	1.000
8E-06	.026	.059	.127	.255	.452	.686	.878	.973	.997	1.000
7E-06	.024	.056	.122	.246	.442	.677	.873	.972	.997	1.000
6E-06	.023	.052	.116	.237	.430	.666	.867	.970	.997	1.000
5E-06	.021	.049	.109	.227	.417	.654	.859	.967	.997	1.000
4E-06	.019	.045	.102	.214	.400	.638	.849	.964	.996	1.000
3E-06	.016	.040	.092	.199	.379	.618	.836	.960	.995	1.000
2E-06	.014	.034	.081	.178	.351	.589	.817	.953	.994	1.000
1E-06	.010	.025	.063	.147	.306	.539	.782	.939	.992	1.000

N= 8

DETECTION PROBABILITY

F	0DB	1DB	2DB	3DB	4DB	5DB	6DB	7DB	8DB	9DB
1E-01	.133	.144	.159	.179	.207	.246	.298	.367	.456	.562
9E-02	.121	.131	.145	.165	.192	.229	.280	.349	.437	.544
8E-02	.109	.119	.132	.150	.176	.212	.262	.329	.417	.524
7E-02	.097	.106	.118	.136	.160	.195	.243	.308	.394	.502
6E-02	.084	.092	.104	.120	.143	.176	.222	.286	.370	.478
5E-02	.071	.079	.089	.104	.126	.156	.200	.261	.343	.450
4E-02	.058	.065	.074	.088	.107	.135	.176	.233	.313	.417
3E-02	.045	.051	.059	.070	.087	.112	.149	.202	.277	.378
2E-02	.031	.036	.042	.051	.065	.086	.118	.164	.233	.328
1E-02	.017	.020	.024	.030	.040	.055	.078	.115	.172	.255
9E-03	.015	.018	.022	.028	.037	.051	.074	.109	.164	.245
8E-03	.014	.016	.020	.025	.034	.047	.069	.103	.155	.235
7E-03	.012	.014	.018	.023	.031	.043	.064	.096	.146	.223
6E-03	.011	.013	.016	.020	.028	.039	.058	.088	.136	.210
5E-03	.009	.011	.014	.018	.024	.035	.052	.080	.126	.196
4E-03	.007	.009	.011	.015	.021	.030	.046	.071	.113	.180
3E-03	.006	.007	.009	.012	.017	.025	.039	.061	.099	.160
2E-03	.004	.005	.006	.009	.013	.019	.030	.049	.082	.136
1E-03	.002	.003	.004	.005	.008	.012	.020	.034	.059	.102
9E-04	.002	.003	.003	.005	.007	.011	.019	.032	.056	.097
8E-04	.002	.002	.003	.004	.007	.010	.017	.030	.053	.093
7E-04	.002	.002	.003	.004	.006	.010	.016	.028	.049	.087
6E-04	.001	.002	.002	.004	.005	.009	.015	.026	.046	.082
5E-04	.001	.002	.002	.003	.005	.008	.013	.023	.042	.075
4E-04	.001	.001	.002	.003	.004	.007	.011	.020	.037	.068
3E-04	.001	.001	.001	.002	.003	.005	.010	.017	.032	.060
2E-04	.001	.001	.001	.002	.002	.004	.007	.014	.026	.050
1E-04	.000	.000	.001	.001	.001	.003	.005	.009	.018	.036
9E-05	.000	.000	.001	.001	.001	.002	.004	.009	.017	.035
8E-05	.000	.000	.000	.001	.001	.002	.004	.008	.016	.033
7E-05	.000	.000	.000	.001	.001	.002	.004	.007	.015	.031
6E-05	.000	.000	.000	.001	.001	.002	.003	.007	.014	.028
5E-05	.000	.000	.000	.001	.001	.002	.003	.006	.013	.026
4E-05	.000	.000	.000	.000	.001	.001	.003	.005	.011	.023
3E-05	.000	.000	.000	.000	.001	.001	.002	.005	.009	.020
2E-05	.000	.000	.000	.000	.000	.001	.002	.004	.008	.017
1E-05	.000	.000	.000	.000	.000	.001	.001	.002	.005	.012
9E-06	.000	.000	.000	.000	.000	.000	.001	.002	.005	.011
8E-06	.000	.000	.000	.000	.000	.000	.001	.002	.005	.010
7E-06	.000	.000	.000	.000	.000	.000	.001	.002	.004	.010
6E-06	.000	.000	.000	.000	.000	.000	.001	.002	.004	.009
5E-06	.000	.000	.000	.000	.000	.000	.001	.002	.003	.008
4E-06	.000	.000	.000	.000	.000	.000	.001	.001	.003	.007
3E-06	.000	.000	.000	.000	.000	.000	.000	.001	.003	.006
2E-06	.000	.000	.000	.000	.000	.000	.000	.001	.002	.005
1E-06	.000	.000	.000	.000	.000	.000	.000	.001	.001	.004

N= 8

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.680	.796	.892	.956	.987	.9981	.0001	.0001	.0001	.000
9E-02	.664	.784	.884	.952	.986	.9971	.0001	.0001	.0001	.000
8E-02	.646	.769	.875	.947	.984	.9971	.0001	.0001	.0001	.000
7E-02	.626	.753	.864	.941	.982	.9961	.0001	.0001	.0001	.000
6E-02	.603	.734	.851	.934	.979	.9961	.0001	.0001	.0001	.000
5E-02	.577	.712	.835	.926	.976	.995	.9991	.0001	.0001	.000
4E-02	.545	.684	.815	.914	.971	.994	.9991	.0001	.0001	.000
3E-02	.505	.649	.788	.899	.965	.992	.9991	.0001	.0001	.000
2E-02	.453	.600	.749	.874	.954	.989	.9981	.0001	.0001	.000
1E-02	.371	.518	.680	.827	.930	.981	.9971	.0001	.0001	.000
9E-03	.360	.506	.669	.819	.926	.980	.9971	.0001	.0001	.000
8E-03	.347	.492	.657	.810	.922	.978	.9971	.0001	.0001	.000
7E-03	.333	.477	.643	.800	.916	.976	.9961	.0001	.0001	.000
6E-03	.318	.460	.627	.788	.909	.974	.9961	.0001	.0001	.000
5E-03	.300	.441	.608	.774	.901	.971	.9951	.0001	.0001	.000
4E-03	.279	.417	.585	.756	.891	.967	.994	.9991	.0001	.000
3E-03	.254	.388	.555	.731	.876	.961	.993	.9991	.0001	.000
2E-03	.222	.349	.514	.696	.854	.951	.990	.9991	.0001	.000
1E-03	.174	.288	.447	.635	.811	.932	.985	.9981	.0001	.000
9E-04	.168	.279	.437	.625	.804	.928	.984	.9981	.0001	.000
8E-04	.161	.270	.426	.614	.796	.924	.983	.9981	.0001	.000
7E-04	.153	.260	.413	.602	.787	.920	.981	.9981	.0001	.000
6E-04	.145	.248	.399	.588	.777	.914	.980	.9981	.0001	.000
5E-04	.135	.235	.383	.572	.764	.907	.978	.9971	.0001	.000
4E-04	.125	.219	.364	.552	.748	.899	.975	.9971	.0001	.000
3E-04	.112	.200	.339	.526	.727	.887	.971	.9961	.0001	.000
2E-04	.095	.176	.307	.490	.696	.868	.964	.9951	.0001	.000
1E-04	.072	.140	.256	.430	.642	.834	.950	.992	.9991	.000
9E-05	.069	.135	.249	.422	.633	.828	.948	.992	.9991	.000
8E-05	.066	.130	.241	.412	.624	.822	.945	.991	.9991	.000
7E-05	.062	.124	.233	.401	.613	.814	.942	.990	.9991	.000
6E-05	.059	.117	.223	.389	.601	.806	.938	.989	.9991	.000
5E-05	.054	.110	.212	.374	.586	.795	.934	.988	.9991	.000
4E-05	.049	.102	.199	.357	.568	.782	.928	.987	.9991	.000
3E-05	.044	.092	.183	.335	.545	.764	.919	.985	.9991	.000
2E-05	.037	.079	.162	.306	.513	.738	.906	.981	.9981	.000
1E-05	.027	.061	.131	.260	.459	.692	.882	.974	.9971	.000
9E-06	.026	.058	.127	.254	.451	.685	.878	.973	.9971	.000
8E-06	.024	.056	.122	.246	.442	.677	.873	.972	.9971	.000
7E-06	.023	.053	.117	.238	.432	.668	.868	.970	.9971	.000
6E-06	.021	.050	.111	.229	.420	.657	.861	.968	.9971	.000
5E-06	.020	.046	.105	.219	.407	.644	.853	.965	.9961	.000
4E-06	.018	.042	.097	.207	.390	.629	.843	.962	.9961	.000
3E-06	.015	.038	.088	.192	.370	.608	.830	.957	.9951	.000
2E-06	.013	.032	.077	.172	.342	.579	.811	.950	.9941	.000
1E-06	.009	.024	.060	.142	.297	.530	.775	.936	.9911	.000

N= 9

DETECTION PROBABILITY

F	0DB	1DB	2DB	3DB	4DB	5DB	6DB	7DB	8DB	9DB
1E-01	.131	.141	.155	.174	.200	.237	.288	.355	.442	.548
9E-02	.119	.128	.142	.160	.186	.221	.271	.337	.423	.530
8E-02	.107	.116	.128	.146	.170	.205	.252	.318	.403	.510
7E-02	.095	.103	.115	.131	.154	.187	.233	.297	.381	.488
6E-02	.082	.090	.101	.116	.138	.169	.213	.275	.358	.464
5E-02	.070	.077	.087	.101	.121	.150	.192	.251	.331	.436
4E-02	.057	.063	.072	.084	.103	.129	.168	.224	.301	.404
3E-02	.044	.049	.056	.067	.083	.107	.142	.193	.266	.366
2E-02	.030	.034	.040	.049	.062	.082	.112	.157	.223	.316
1E-02	.016	.019	.023	.029	.038	.052	.074	.110	.164	.245
9E-03	.015	.017	.021	.026	.035	.048	.070	.104	.156	.236
8E-03	.013	.016	.019	.024	.032	.045	.065	.097	.148	.225
7E-03	.012	.014	.017	.022	.029	.041	.060	.091	.139	.214
6E-03	.010	.012	.015	.019	.026	.037	.055	.084	.130	.202
5E-03	.009	.010	.013	.017	.023	.033	.049	.076	.119	.188
4E-03	.007	.009	.011	.014	.019	.028	.043	.068	.108	.172
3E-03	.006	.007	.008	.011	.016	.023	.036	.058	.094	.153
2E-03	.004	.005	.006	.008	.012	.018	.028	.047	.078	.130
1E-03	.002	.003	.003	.005	.007	.011	.019	.032	.055	.097
9E-04	.002	.002	.003	.004	.007	.011	.018	.030	.053	.093
8E-04	.002	.002	.003	.004	.006	.010	.016	.028	.050	.088
7E-04	.002	.002	.003	.004	.006	.009	.015	.026	.046	.083
6E-04	.001	.002	.002	.003	.005	.008	.014	.024	.043	.078
5E-04	.001	.001	.002	.003	.004	.007	.012	.022	.039	.072
4E-04	.001	.001	.002	.002	.004	.006	.011	.019	.035	.065
3E-04	.001	.001	.001	.002	.003	.005	.009	.016	.030	.057
2E-04	.001	.001	.001	.001	.002	.004	.007	.013	.025	.047
1E-04	.000	.000	.001	.001	.001	.002	.004	.009	.017	.034
9E-05	.000	.000	.000	.001	.001	.002	.004	.008	.016	.033
8E-05	.000	.000	.000	.001	.001	.002	.004	.008	.015	.031
7E-05	.000	.000	.000	.001	.001	.002	.004	.007	.014	.029
6E-05	.000	.000	.000	.001	.001	.002	.003	.006	.013	.027
5E-05	.000	.000	.000	.000	.001	.002	.003	.006	.012	.025
4E-05	.000	.000	.000	.000	.001	.001	.002	.005	.010	.022
3E-05	.000	.000	.000	.000	.001	.001	.002	.004	.009	.019
2E-05	.000	.000	.000	.000	.000	.001	.002	.003	.007	.016
1E-05	.000	.000	.000	.000	.000	.000	.001	.002	.005	.011
9E-06	.000	.000	.000	.000	.000	.000	.001	.002	.005	.010
8E-06	.000	.000	.000	.000	.000	.000	.001	.002	.004	.010
7E-06	.000	.000	.000	.000	.000	.000	.001	.002	.004	.009
6E-06	.000	.000	.000	.000	.000	.000	.001	.002	.004	.009
5E-06	.000	.000	.000	.000	.000	.000	.001	.001	.003	.008
4E-06	.000	.000	.000	.000	.000	.000	.001	.001	.003	.007
3E-06	.000	.000	.000	.000	.000	.000	.000	.001	.002	.006
2E-06	.000	.000	.000	.000	.000	.000	.000	.001	.002	.005
1E-06	.000	.000	.000	.000	.000	.000	.000	.001	.001	.003

N= 9

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.667	.785	.885	.952	.986	.9971	1.0001	1.0001	1.0001	1.000
9E-02	.651	.772	.876	.948	.984	.9971	1.0001	1.0001	1.0001	1.000
8E-02	.633	.758	.867	.943	.983	.9971	1.0001	1.0001	1.0001	1.000
7E-02	.612	.741	.855	.937	.980	.9961	1.0001	1.0001	1.0001	1.000
6E-02	.589	.722	.842	.930	.977	.995	.9991	1.0001	1.0001	1.000
5E-02	.563	.699	.826	.921	.974	.994	.9991	1.0001	1.0001	1.000
4E-02	.531	.672	.805	.909	.969	.993	.9991	1.0001	1.0001	1.000
3E-02	.492	.636	.778	.892	.962	.991	.9991	1.0001	1.0001	1.000
2E-02	.440	.586	.738	.867	.950	.988	.9981	1.0001	1.0001	1.000
1E-02	.359	.505	.668	.819	.926	.980	.9971	1.0001	1.0001	1.000
9E-03	.348	.493	.657	.811	.922	.978	.9971	1.0001	1.0001	1.000
8E-03	.335	.480	.645	.802	.917	.977	.9961	1.0001	1.0001	1.000
7E-03	.322	.465	.631	.791	.911	.975	.9961	1.0001	1.0001	1.000
6E-03	.307	.448	.615	.779	.904	.972	.9951	1.0001	1.0001	1.000
5E-03	.289	.429	.596	.764	.896	.969	.9941	1.0001	1.0001	1.000
4E-03	.269	.405	.573	.746	.885	.964	.993	.9991	1.0001	1.000
3E-03	.245	.377	.544	.721	.870	.958	.992	.9991	1.0001	1.000
2E-03	.214	.338	.503	.686	.847	.948	.989	.9991	1.0001	1.000
1E-03	.167	.278	.436	.624	.803	.928	.984	.9981	1.0001	1.000
9E-04	.161	.270	.426	.614	.796	.924	.983	.9981	1.0001	1.000
8E-04	.154	.261	.415	.604	.789	.920	.982	.9981	1.0001	1.000
7E-04	.147	.251	.403	.592	.779	.915	.980	.9981	1.0001	1.000
6E-04	.139	.239	.389	.578	.769	.910	.978	.9971	1.0001	1.000
5E-04	.130	.227	.373	.561	.756	.903	.976	.9971	1.0001	1.000
4E-04	.119	.211	.354	.541	.739	.894	.973	.9961	1.0001	1.000
3E-04	.107	.193	.330	.515	.718	.881	.969	.9961	1.0001	1.000
2E-04	.091	.170	.298	.480	.687	.863	.962	.9941	1.0001	1.000
1E-04	.069	.134	.248	.421	.632	.827	.948	.992	.9991	1.000
9E-05	.066	.130	.241	.412	.624	.822	.945	.991	.9991	1.000
8E-05	.063	.124	.234	.402	.615	.815	.943	.990	.9991	1.000
7E-05	.059	.119	.225	.391	.604	.808	.939	.990	.9991	1.000
6E-05	.056	.113	.216	.379	.592	.799	.935	.989	.9991	1.000
5E-05	.052	.105	.205	.365	.577	.788	.931	.988	.9991	1.000
4E-05	.047	.097	.192	.348	.559	.775	.924	.986	.9991	1.000
3E-05	.041	.088	.177	.327	.536	.757	.916	.984	.9991	1.000
2E-05	.035	.075	.156	.298	.504	.731	.902	.980	.9981	1.000
1E-05	.026	.058	.126	.253	.450	.684	.877	.973	.9971	1.000
9E-06	.024	.056	.122	.246	.442	.677	.873	.972	.9971	1.000
8E-06	.023	.053	.117	.239	.433	.669	.868	.970	.9971	1.000
7E-06	.022	.050	.112	.231	.423	.660	.863	.968	.9971	1.000
6E-06	.020	.047	.107	.223	.411	.649	.856	.966	.9961	1.000
5E-06	.019	.044	.101	.213	.398	.636	.848	.964	.9961	1.000
4E-06	.017	.040	.094	.201	.382	.620	.838	.960	.9951	1.000
3E-06	.015	.036	.085	.186	.362	.600	.825	.955	.9951	1.000
2E-06	.012	.030	.074	.167	.334	.571	.805	.948	.9931	1.000
1E-06	.009	.023	.058	.137	.290	.521	.769	.933	.9911	1.000

N = 10

DETECTION PROBABILITY

	F	00B	10B	20B	30B	40B	50B	60B	70B	80B	90B
	1E-01	.129	.138	.151	.169	.195	.230	.279	.345	.430	.536
	9E-02	.117	.126	.138	.156	.180	.214	.262	.327	.412	.517
	8E-02	.105	.113	.125	.142	.165	.198	.244	.308	.392	.498
	7E-02	.093	.101	.112	.127	.150	.181	.226	.287	.370	.476
	6E-02	.081	.088	.098	.113	.133	.163	.206	.265	.347	.451
	5E-02	.068	.075	.084	.097	.117	.144	.185	.242	.321	.424
	4E-02	.056	.061	.070	.082	.099	.124	.162	.215	.291	.399
	3E-02	.043	.048	.055	.065	.080	.103	.136	.186	.257	.355
	2E-02	.030	.033	.039	.047	.059	.078	.107	.150	.215	.306
	1E-02	.016	.018	.022	.027	.036	.049	.071	.105	.157	.236
	9E-03	.014	.017	.020	.025	.033	.046	.066	.099	.150	.227
	8E-03	.013	.015	.018	.023	.030	.043	.062	.093	.142	.217
	7E-03	.011	.013	.016	.021	.028	.039	.057	.087	.134	.206
	6E-03	.010	.012	.014	.018	.025	.035	.052	.080	.124	.194
	5E-03	.008	.010	.012	.016	.022	.031	.047	.072	.114	.181
	4E-03	.007	.008	.010	.013	.018	.027	.041	.064	.103	.165
	3E-03	.005	.006	.008	.011	.015	.022	.034	.055	.090	.147
	2E-03	.004	.005	.006	.008	.011	.017	.027	.044	.074	.124
	1E-03	.002	.002	.003	.005	.007	.011	.018	.030	.053	.093
	9E-04	.002	.002	.003	.004	.006	.010	.017	.028	.050	.089
	8E-04	.002	.002	.003	.004	.006	.009	.015	.027	.047	.084
	7E-04	.001	.002	.002	.003	.005	.008	.014	.025	.044	.079
	6E-04	.001	.002	.002	.003	.005	.008	.013	.023	.041	.074
	5E-04	.001	.001	.002	.003	.004	.007	.011	.020	.037	.068
	4E-04	.001	.001	.002	.002	.004	.006	.010	.018	.033	.062
	3E-04	.001	.001	.001	.002	.003	.005	.008	.015	.029	.054
	2E-04	.000	.001	.001	.001	.002	.004	.006	.012	.023	.045
	1E-04	.000	.000	.000	.001	.001	.002	.004	.008	.016	.033
	9E-05	.000	.000	.000	.001	.001	.002	.004	.008	.015	.031
	8E-05	.000	.000	.000	.001	.001	.002	.004	.007	.014	.029
	7E-05	.000	.000	.000	.001	.001	.002	.003	.007	.013	.028
	6E-05	.000	.000	.000	.001	.001	.002	.003	.006	.012	.026
	5E-05	.000	.000	.000	.000	.001	.001	.003	.005	.011	.023
	4E-05	.000	.000	.000	.000	.001	.001	.002	.005	.010	.021
	3E-05	.000	.000	.000	.000	.001	.001	.002	.004	.008	.018
	2E-05	.000	.000	.000	.000	.000	.001	.001	.003	.007	.015
	1E-05	.000	.000	.000	.000	.000	.000	.001	.002	.005	.010
	9E-06	.000	.000	.000	.000	.000	.000	.001	.002	.004	.010
	8E-06	.000	.000	.000	.000	.000	.000	.001	.002	.004	.009
	7E-06	.000	.000	.000	.000	.000	.000	.001	.002	.004	.009
	6E-06	.000	.000	.000	.000	.000	.000	.001	.001	.003	.008
	5E-06	.000	.000	.000	.000	.000	.000	.001	.001	.003	.007
	4E-06	.000	.000	.000	.000	.000	.000	.001	.001	.003	.007
	3E-06	.000	.000	.000	.000	.000	.000	.000	.001	.002	.006
	2E-06	.000	.000	.000	.000	.000	.000	.000	.001	.002	.005
	1E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003

N= 10

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.655	.775	.878	.949	.985	.9971	.0001	.0001	.0001	.000
9E-02	.639	.762	.869	.944	.983	.9971	.0001	.0001	.0001	.000
8E-02	.620	.747	.859	.939	.981	.9961	.0001	.0001	.0001	.000
7E-02	.600	.731	.848	.933	.979	.9961	.0001	.0001	.0001	.000
6E-02	.577	.711	.834	.925	.976	.995	.9991	.0001	.0001	.000
5E-02	.550	.688	.817	.916	.972	.994	.9991	.0001	.0001	.000
4E-02	.519	.660	.797	.903	.967	.993	.9991	.0001	.0001	.000
3E-02	.480	.624	.769	.886	.959	.990	.9991	.0001	.0001	.000
2E-02	.428	.575	.728	.860	.947	.987	.9981	.0001	.0001	.000
1E-02	.348	.493	.657	.811	.922	.978	.9971	.0001	.0001	.000
9E-03	.337	.482	.646	.803	.917	.977	.9961	.0001	.0001	.000
8E-03	.325	.468	.634	.794	.912	.975	.9961	.0001	.0001	.000
7E-03	.312	.454	.620	.783	.907	.973	.9951	.0001	.0001	.000
6E-03	.297	.437	.604	.771	.899	.970	.9951	.0001	.0001	.000
5E-03	.280	.418	.585	.756	.891	.967	.994	.9991	.0001	.000
4E-03	.261	.395	.562	.737	.879	.962	.993	.9991	.0001	.000
3E-03	.237	.367	.533	.712	.864	.956	.991	.9991	.0001	.000
2E-03	.206	.329	.492	.677	.841	.945	.989	.9991	.0001	.000
1E-03	.161	.270	.426	.615	.797	.924	.983	.9981	.0001	.000
9E-04	.155	.262	.416	.605	.789	.921	.982	.9981	.0001	.000
8E-04	.149	.253	.405	.594	.781	.916	.980	.9981	.0001	.000
7E-04	.141	.243	.393	.582	.772	.912	.979	.9971	.0001	.000
6E-04	.134	.232	.379	.568	.761	.906	.977	.9971	.0001	.000
5E-04	.125	.219	.364	.552	.748	.899	.975	.9971	.0001	.000
4E-04	.114	.205	.345	.532	.732	.889	.972	.9961	.0001	.000
3E-04	.102	.187	.321	.506	.710	.877	.967	.9951	.0001	.000
2E-04	.087	.164	.290	.470	.679	.858	.960	.9941	.0001	.000
1E-04	.066	.130	.241	.412	.624	.822	.945	.991	.9991	.000
9E-05	.063	.125	.234	.403	.616	.816	.943	.990	.9991	.000
8E-05	.060	.120	.227	.394	.606	.809	.940	.990	.9991	.000
7E-05	.057	.114	.219	.383	.595	.802	.937	.989	.9991	.000
6E-05	.053	.108	.209	.371	.583	.793	.933	.988	.9991	.000
5E-05	.049	.102	.199	.357	.568	.782	.928	.987	.9991	.000
4E-05	.045	.094	.186	.340	.550	.768	.921	.985	.9991	.000
3E-05	.040	.084	.171	.319	.527	.750	.912	.983	.9991	.000
2E-05	.033	.073	.151	.291	.495	.724	.899	.979	.9981	.000
1E-05	.024	.056	.122	.246	.442	.677	.873	.972	.9971	.000
9E-06	.023	.053	.118	.240	.434	.670	.869	.970	.9971	.000
8E-06	.022	.051	.113	.233	.425	.662	.864	.969	.9971	.000
7E-06	.021	.048	.109	.225	.415	.652	.858	.967	.9961	.000
6E-06	.019	.046	.103	.217	.404	.641	.852	.965	.9961	.000
5E-06	.018	.042	.097	.207	.390	.629	.843	.962	.9961	.000
4E-06	.016	.039	.090	.195	.375	.613	.833	.958	.9951	.000
3E-06	.014	.034	.082	.181	.355	.592	.820	.953	.9941	.000
2E-06	.012	.029	.071	.162	.327	.563	.800	.946	.9931	.000
1E-06	.008	.022	.056	.133	.284	.514	.763	.931	.9901	.000

$N = 20$

DETECTION PROBABILITY

	F	0DB	1DB	2DB	3DB	4DB	5DB	6DB	7DB	8DB	9DB
	1E-01	.118	.124	.133	.146	.164	.191	.229	.284	.359	.457
	9E-02	.107	.112	.121	.133	.151	.176	.214	.267	.341	.439
	8E-02	.095	.101	.109	.120	.137	.162	.198	.250	.323	.420
	7E-02	.084	.089	.097	.107	.123	.147	.181	.231	.303	.399
	6E-02	.073	.077	.084	.094	.109	.131	.164	.212	.281	.376
	5E-02	.061	.065	.072	.081	.094	.115	.145	.191	.258	.350
	4E-02	.050	.053	.059	.067	.079	.097	.126	.168	.232	.322
	3E-02	.038	.041	.045	.052	.063	.079	.104	.143	.202	.287
	2E-02	.026	.028	.032	.037	.046	.059	.080	.114	.166	.244
	1E-02	.013	.015	.017	.021	.027	.036	.052	.077	.119	.185
	9E-03	.012	.014	.016	.019	.025	.033	.048	.073	.113	.177
	8E-03	.011	.012	.014	.017	.022	.031	.045	.068	.107	.169
	7E-03	.010	.011	.013	.016	.020	.028	.041	.063	.100	.160
	6E-03	.008	.009	.011	.014	.018	.025	.037	.058	.093	.150
	5E-03	.007	.008	.009	.012	.016	.022	.033	.052	.085	.139
	4E-03	.006	.007	.008	.010	.013	.019	.029	.046	.076	.126
	3E-03	.004	.005	.006	.008	.011	.015	.024	.039	.066	.112
	2E-03	.003	.003	.004	.006	.008	.012	.019	.031	.054	.094
	1E-03	.002	.002	.002	.003	.005	.007	.012	.021	.038	.069
	9E-04	.001	.002	.002	.003	.004	.007	.011	.020	.036	.066
	8E-04	.001	.002	.002	.003	.004	.006	.010	.018	.034	.062
	7E-04	.001	.001	.002	.002	.004	.006	.010	.017	.031	.059
	6E-04	.001	.001	.002	.002	.003	.005	.009	.016	.029	.055
	5E-04	.001	.001	.001	.002	.003	.004	.008	.014	.026	.050
	4E-04	.001	.001	.001	.002	.002	.004	.007	.012	.023	.045
	3E-04	.001	.001	.001	.001	.002	.003	.006	.010	.020	.040
	2E-04	.000	.000	.001	.001	.001	.002	.004	.008	.016	.033
	1E-04	.000	.000	.000	.001	.001	.001	.003	.005	.011	.023
	9E-05	.000	.000	.000	.000	.001	.001	.003	.005	.011	.022
	8E-05	.000	.000	.000	.000	.001	.001	.002	.005	.010	.021
	7E-05	.000	.000	.000	.000	.001	.001	.002	.004	.009	.020
	6E-05	.000	.000	.000	.000	.001	.001	.002	.004	.008	.018
	5E-05	.000	.000	.000	.000	.000	.001	.002	.004	.008	.017
	4E-05	.000	.000	.000	.000	.000	.001	.002	.003	.007	.015
	3E-05	.000	.000	.000	.000	.000	.001	.001	.003	.006	.013
	2E-05	.000	.000	.000	.000	.000	.000	.001	.002	.005	.010
	1E-05	.000	.000	.000	.000	.000	.000	.001	.001	.003	.007
	9E-06	.000	.000	.000	.000	.000	.000	.001	.001	.003	.007
	8E-06	.000	.000	.000	.000	.000	.000	.001	.001	.003	.007
	7E-06	.000	.000	.000	.000	.000	.000	.000	.001	.003	.006
	6E-06	.000	.000	.000	.000	.000	.000	.000	.001	.002	.006
	5E-06	.000	.000	.000	.000	.000	.000	.000	.001	.002	.005
	4E-06	.000	.000	.000	.000	.000	.000	.000	.001	.002	.005
	3E-06	.000	.000	.000	.000	.000	.000	.000	.001	.002	.004
	2E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003
	1E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002

N= 20

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.577	.707	.829	.921	.974	.994	.9991	.0001	.0001	.000
9E-02	.560	.693	.819	.915	.971	.994	.9991	.0001	.0001	.000
8E-02	.541	.677	.807	.908	.969	.993	.9991	.0001	.0001	.000
7E-02	.520	.658	.793	.900	.965	.992	.9991	.0001	.0001	.000
6E-02	.497	.638	.777	.891	.961	.991	.9991	.0001	.0001	.000
5E-02	.471	.613	.758	.879	.956	.989	.9991	.0001	.0001	.000
4E-02	.441	.585	.735	.864	.948	.987	.9981	.0001	.0001	.000
3E-02	.404	.548	.705	.844	.939	.984	.9981	.0001	.0001	.000
2E-02	.356	.499	.661	.813	.923	.979	.9971	.0001	.0001	.000
1E-02	.284	.421	.588	.757	.891	.967	.994	.9991	.0001	.000
9E-03	.274	.410	.577	.748	.886	.965	.994	.9991	.0001	.000
8E-03	.264	.398	.564	.738	.880	.962	.993	.9991	.0001	.000
7E-03	.252	.384	.551	.727	.873	.959	.992	.9991	.0001	.000
6E-03	.239	.369	.535	.713	.864	.956	.991	.9991	.0001	.000
5E-03	.225	.351	.516	.697	.854	.951	.990	.9991	.0001	.000
4E-03	.208	.330	.494	.678	.841	.945	.989	.9991	.0001	.000
3E-03	.188	.305	.465	.652	.823	.937	.987	.9991	.0001	.000
2E-03	.162	.271	.426	.615	.797	.924	.983	.9981	.0001	.000
1E-03	.125	.220	.364	.552	.748	.899	.975	.9971	.0001	.000
9E-04	.120	.213	.355	.542	.740	.894	.973	.9961	.0001	.000
8E-04	.115	.205	.345	.532	.732	.889	.972	.9961	.0001	.000
7E-04	.109	.197	.334	.520	.722	.884	.970	.9961	.0001	.000
6E-04	.103	.187	.322	.506	.710	.877	.967	.9951	.0001	.000
5E-04	.096	.176	.307	.490	.696	.868	.964	.9951	.0001	.000
4E-04	.087	.164	.290	.471	.679	.858	.960	.9941	.0001	.000
3E-04	.078	.149	.269	.446	.656	.843	.954	.9931	.0001	.000
2E-04	.066	.130	.241	.412	.624	.822	.945	.991	.9991	.000
1E-04	.049	.102	.199	.357	.568	.782	.928	.987	.9991	.000
9E-05	.047	.098	.193	.349	.560	.775	.925	.986	.9991	.000
8E-05	.045	.094	.186	.340	.550	.768	.921	.985	.9991	.000
7E-05	.042	.089	.179	.330	.540	.760	.917	.984	.9991	.000
6E-05	.040	.084	.171	.319	.527	.750	.912	.983	.9991	.000
5E-05	.037	.079	.162	.306	.513	.738	.906	.981	.9981	.000
4E-05	.033	.073	.151	.291	.495	.724	.899	.979	.9981	.000
3E-05	.029	.065	.139	.272	.473	.705	.888	.976	.9981	.000
2E-05	.024	.056	.122	.246	.442	.677	.873	.972	.9971	.000
1E-05	.018	.042	.097	.207	.390	.629	.843	.962	.9961	.000
9E-06	.017	.041	.094	.201	.383	.621	.839	.960	.9961	.000
8E-06	.016	.039	.090	.195	.375	.613	.833	.958	.9951	.000
7E-06	.015	.037	.086	.188	.365	.603	.827	.956	.9951	.000
6E-06	.014	.034	.082	.181	.355	.592	.820	.953	.9941	.000
5E-06	.013	.032	.077	.172	.342	.579	.811	.950	.9941	.000
4E-06	.012	.029	.071	.162	.327	.563	.800	.946	.9931	.000
3E-06	.010	.026	.064	.149	.309	.543	.785	.940	.9921	.000
2E-06	.008	.022	.056	.133	.284	.514	.763	.931	.9901	.000
1E-06	.006	.016	.043	.109	.244	.465	.724	.913	.987	.999

N = 30

DETECTION PROBABILITY

	F	0DB	1DB	2DB	3DB	4DB	5DB	6DB	7DB	8DB	9DB
	1E-01	.113	.118	.125	.135	.151	.173	.206	.254	.322	.415
	9E-02	.102	.107	.114	.123	.138	.159	.191	.238	.305	.397
	8E-02	.091	.096	.102	.111	.125	.145	.176	.222	.288	.379
	7E-02	.080	.084	.090	.099	.112	.131	.161	.204	.269	.358
	6E-02	.069	.073	.078	.086	.098	.117	.144	.186	.248	.336
	5E-02	.058	.062	.066	.074	.085	.101	.127	.167	.226	.312
	4E-02	.047	.050	.054	.060	.070	.086	.109	.146	.202	.285
	3E-02	.036	.038	.042	.047	.055	.069	.090	.123	.175	.253
	2E-02	.024	.026	.029	.033	.040	.051	.068	.097	.143	.213
	1E-02	.013	.014	.015	.018	.023	.030	.043	.065	.101	.159
	9E-03	.011	.012	.014	.017	.021	.028	.040	.061	.095	.152
	8E-03	.010	.011	.013	.015	.019	.026	.037	.057	.090	.145
	7E-03	.009	.010	.011	.013	.017	.023	.034	.052	.084	.137
	6E-03	.008	.009	.010	.012	.015	.021	.031	.048	.078	.128
	5E-03	.006	.007	.008	.010	.013	.018	.027	.043	.071	.118
	4E-03	.005	.006	.007	.009	.011	.016	.024	.038	.063	.107
	3E-03	.004	.004	.005	.007	.009	.013	.020	.032	.055	.095
	2E-03	.003	.003	.004	.005	.006	.009	.015	.025	.044	.079
	1E-03	.001	.002	.002	.003	.004	.006	.010	.017	.031	.058
	9E-04	.001	.001	.002	.002	.003	.005	.009	.016	.029	.055
	8E-04	.001	.001	.002	.002	.003	.005	.008	.015	.028	.052
	7E-04	.001	.001	.001	.002	.003	.004	.008	.014	.026	.049
	6E-04	.001	.001	.001	.002	.003	.004	.007	.013	.024	.046
	5E-04	.001	.001	.001	.001	.002	.004	.006	.011	.021	.042
	4E-04	.001	.001	.001	.001	.002	.003	.005	.010	.019	.038
	3E-04	.000	.001	.001	.001	.001	.002	.004	.006	.016	.033
	2E-04	.000	.000	.000	.001	.001	.002	.003	.007	.013	.027
	1E-04	.000	.000	.000	.000	.001	.001	.002	.004	.009	.019
	9E-05	.000	.000	.000	.000	.001	.001	.002	.004	.008	.018
	8E-05	.000	.000	.000	.000	.001	.001	.002	.004	.008	.017
	7E-05	.000	.000	.000	.000	.000	.001	.002	.003	.007	.016
	6E-05	.000	.000	.000	.000	.000	.001	.002	.003	.007	.015
	5E-05	.000	.000	.000	.000	.000	.001	.001	.003	.006	.014
	4E-05	.000	.000	.000	.000	.000	.001	.001	.002	.005	.012
	3E-05	.000	.000	.000	.000	.000	.000	.001	.002	.005	.011
	2E-05	.000	.000	.000	.000	.000	.000	.001	.002	.004	.009
	1E-05	.000	.000	.000	.000	.000	.000	.000	.001	.002	.006
	9E-06	.000	.000	.000	.000	.000	.000	.000	.001	.002	.006
	8E-06	.000	.000	.000	.000	.000	.000	.000	.001	.002	.005
	7E-06	.000	.000	.000	.000	.000	.000	.000	.001	.002	.005
	6E-06	.000	.000	.000	.000	.000	.000	.000	.001	.002	.005
	5E-06	.000	.000	.000	.000	.000	.000	.000	.001	.002	.004
	4E-06	.000	.000	.000	.000	.000	.000	.000	.001	.001	.004
	3E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003
	2E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	1E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002

N= 30

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.532	.666	.797	.902	.965	.992	.9991	.0001	.0001	.000
9E-02	.515	.651	.786	.895	.963	.991	.9991	.0001	.0001	.000
8E-02	.497	.634	.773	.887	.959	.990	.9991	.0001	.0001	.000
7E-02	.476	.615	.758	.878	.955	.989	.9981	.0001	.0001	.000
6E-02	.453	.594	.741	.867	.950	.988	.9981	.0001	.0001	.000
5E-02	.428	.570	.721	.854	.944	.986	.9981	.0001	.0001	.000
4E-02	.398	.541	.697	.838	.935	.983	.9971	.0001	.0001	.000
3E-02	.363	.505	.665	.815	.924	.979	.9971	.0001	.0001	.000
2E-02	.317	.457	.621	.783	.906	.972	.9951	.0001	.0001	.000
1E-02	.251	.381	.547	.724	.871	.958	.992	.9991	.0001	.000
9E-03	.242	.371	.536	.714	.865	.956	.991	.9991	.0001	.000
8E-03	.232	.359	.524	.704	.858	.953	.991	.9991	.0001	.000
7E-03	.221	.346	.510	.692	.850	.950	.990	.9991	.0001	.000
6E-03	.209	.332	.495	.678	.841	.946	.989	.9991	.0001	.000
5E-03	.196	.315	.476	.662	.830	.940	.987	.9991	.0001	.000
4E-03	.181	.295	.454	.642	.816	.934	.986	.9981	.0001	.000
3E-03	.163	.272	.427	.615	.797	.924	.983	.9981	.0001	.000
2E-03	.140	.241	.390	.578	.769	.910	.978	.9971	.0001	.000
1E-03	.107	.194	.330	.516	.718	.882	.969	.9961	.0001	.000
9E-04	.103	.187	.322	.506	.710	.877	.967	.9951	.0001	.000
8E-04	.098	.180	.312	.496	.701	.871	.965	.9951	.0001	.000
7E-04	.093	.173	.302	.484	.691	.865	.963	.9951	.0001	.000
6E-04	.088	.164	.290	.471	.679	.858	.960	.9941	.0001	.000
5E-04	.081	.154	.277	.455	.665	.849	.956	.9931	.0001	.000
4E-04	.074	.143	.261	.436	.647	.837	.952	.992	.9991	.000
3E-04	.066	.130	.241	.412	.624	.822	.945	.991	.9991	.000
2E-04	.056	.113	.216	.379	.592	.799	.935	.989	.9991	.000
1E-04	.042	.088	.177	.327	.536	.757	.916	.984	.9991	.000
9E-05	.040	.084	.171	.319	.527	.750	.912	.983	.9991	.000
8E-05	.038	.081	.165	.311	.518	.743	.909	.982	.9981	.000
7E-05	.036	.077	.159	.301	.508	.734	.904	.981	.9981	.000
6E-05	.033	.073	.151	.291	.495	.724	.899	.979	.9981	.000
5E-05	.031	.068	.143	.279	.481	.712	.892	.977	.9981	.000
4E-05	.028	.062	.134	.264	.464	.697	.884	.975	.9981	.000
3E-05	.024	.056	.122	.246	.442	.677	.873	.972	.9971	.000
2E-05	.020	.047	.107	.223	.411	.649	.856	.966	.9961	.000
1E-05	.015	.036	.085	.186	.362	.600	.825	.955	.9951	.000
9E-06	.014	.034	.082	.181	.355	.592	.820	.953	.9941	.000
8E-06	.013	.033	.079	.175	.347	.584	.814	.951	.9941	.000
7E-06	.012	.031	.075	.169	.338	.574	.807	.949	.9941	.000
6E-06	.012	.029	.071	.162	.327	.563	.800	.946	.9931	.000
5E-06	.011	.027	.067	.154	.316	.550	.790	.942	.9921	.000
4E-06	.009	.025	.062	.145	.301	.534	.778	.937	.9921	.000
3E-06	.008	.022	.056	.133	.284	.514	.763	.931	.9901	.000
2E-06	.007	.018	.048	.118	.260	.485	.740	.921	.988	.999
1E-06	.005	.014	.037	.096	.223	.438	.700	.901	.984	.999

N = 40

DETECTION PROBABILITY

F	0DB	1DB	2DB	3DB	4DB	5DB	6DB	7DB	8DB	9DB
1E-01	.111	.115	.121	.130	.143	.162	.192	.235	.299	.387
9E-02	.100	.104	.109	.118	.130	.149	.177	.220	.282	.370
8E-02	.089	.093	.098	.106	.118	.136	.163	.204	.265	.351
7E-02	.078	.082	.087	.094	.105	.122	.148	.186	.247	.332
6E-02	.068	.071	.075	.082	.092	.108	.133	.170	.227	.310
5E-02	.057	.059	.063	.070	.079	.094	.116	.152	.207	.287
4E-02	.046	.048	.052	.057	.065	.078	.099	.132	.184	.261
3E-02	.035	.037	.040	.044	.051	.063	.081	.111	.158	.230
2E-02	.023	.025	.027	.031	.037	.046	.061	.087	.128	.193
1E-02	.012	.013	.014	.017	.021	.027	.038	.057	.089	.143
9E-03	.011	.012	.013	.015	.019	.025	.035	.054	.085	.137
8E-03	.010	.010	.012	.014	.017	.023	.033	.050	.080	.130
7E-03	.009	.009	.010	.012	.015	.021	.030	.046	.074	.122
6E-03	.007	.008	.009	.011	.014	.018	.027	.042	.069	.114
5E-03	.006	.007	.008	.009	.012	.016	.024	.038	.062	.106
4E-03	.005	.005	.006	.008	.010	.014	.021	.033	.056	.096
3E-03	.004	.004	.005	.006	.008	.011	.017	.028	.048	.084
2E-03	.003	.003	.003	.004	.006	.008	.013	.022	.039	.070
1E-03	.001	.002	.002	.002	.003	.005	.008	.015	.027	.051
9E-04	.001	.001	.002	.002	.003	.005	.008	.014	.025	.048
8E-04	.001	.001	.001	.002	.003	.004	.007	.013	.024	.046
7E-04	.001	.001	.001	.002	.002	.004	.006	.012	.022	.043
6E-04	.001	.001	.001	.002	.002	.003	.006	.011	.020	.040
5E-04	.001	.001	.001	.001	.002	.003	.005	.010	.019	.037
4E-04	.001	.001	.001	.001	.002	.003	.004	.008	.016	.033
3E-04	.000	.000	.001	.001	.001	.002	.004	.007	.014	.029
2E-04	.000	.000	.000	.001	.001	.002	.003	.006	.011	.024
1E-04	.000	.000	.000	.000	.001	.001	.002	.004	.008	.017
9E-05	.000	.000	.000	.000	.000	.001	.002	.003	.007	.016
8E-05	.000	.000	.000	.000	.000	.001	.002	.003	.007	.015
7E-05	.000	.000	.000	.000	.000	.001	.001	.003	.006	.014
6E-05	.000	.000	.000	.000	.000	.001	.001	.003	.006	.013
5E-05	.000	.000	.000	.000	.000	.001	.001	.002	.005	.012
4E-05	.000	.000	.000	.000	.000	.000	.001	.002	.005	.011
3E-05	.000	.000	.000	.000	.000	.000	.001	.002	.004	.009
2E-05	.000	.000	.000	.000	.000	.000	.001	.001	.003	.007
1E-05	.000	.000	.000	.000	.000	.000	.000	.001	.002	.005
9E-06	.000	.000	.000	.000	.000	.000	.000	.001	.002	.005
8E-06	.000	.000	.000	.000	.000	.000	.000	.001	.002	.005
7E-06	.000	.000	.000	.000	.000	.000	.000	.001	.002	.004
6E-06	.000	.000	.000	.000	.000	.000	.000	.001	.002	.004
5E-06	.000	.000	.000	.000	.000	.000	.000	.001	.001	.004
4E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003
3E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003
2E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
1E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.001

N= 40

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.502	.637	.773	.887	.959	.990	.9991	.0001	.0001	.000
9E-02	.485	.621	.761	.879	.955	.989	.9981	.0001	.0001	.000
8E-02	.466	.604	.748	.871	.951	.988	.9981	.0001	.0001	.000
7E-02	.446	.585	.733	.861	.947	.986	.9981	.0001	.0001	.000
6E-02	.424	.564	.715	.849	.941	.985	.9981	.0001	.0001	.000
5E-02	.399	.539	.694	.835	.934	.982	.9971	.0001	.0001	.000
4E-02	.370	.510	.669	.818	.925	.979	.9971	.0001	.0001	.000
3E-02	.335	.475	.637	.794	.912	.975	.9961	.0001	.0001	.000
2E-02	.292	.427	.592	.760	.893	.967	.994	.9991	.0001	.000
1E-02	.229	.354	.519	.699	.855	.952	.990	.9991	.0001	.000
9E-03	.220	.344	.508	.690	.849	.949	.990	.9991	.0001	.000
8E-03	.211	.333	.496	.679	.842	.946	.989	.9991	.0001	.000
7E-03	.201	.321	.482	.667	.833	.942	.988	.9991	.0001	.000
6E-03	.190	.307	.467	.653	.824	.937	.987	.9991	.0001	.000
5E-03	.178	.291	.449	.636	.812	.932	.985	.9981	.0001	.000
4E-03	.164	.272	.428	.616	.797	.925	.983	.9981	.0001	.000
3E-03	.147	.250	.401	.589	.777	.914	.980	.9981	.0001	.000
2E-03	.126	.221	.365	.552	.748	.899	.975	.9971	.0001	.000
1E-03	.096	.177	.308	.490	.696	.868	.964	.9951	.0001	.000
9E-04	.092	.171	.299	.481	.688	.863	.962	.9941	.0001	.000
8E-04	.088	.164	.290	.471	.679	.858	.960	.9941	.0001	.000
7E-04	.083	.157	.281	.459	.669	.851	.957	.9941	.0001	.000
6E-04	.078	.149	.269	.446	.656	.843	.954	.9931	.0001	.000
5E-04	.073	.140	.257	.431	.642	.834	.950	.992	.9991	.000
4E-04	.066	.130	.242	.412	.624	.822	.945	.991	.9991	.000
3E-04	.059	.118	.223	.389	.601	.806	.938	.989	.9991	.000
2E-04	.049	.102	.199	.357	.568	.782	.928	.987	.9991	.000
1E-04	.037	.079	.162	.306	.513	.738	.906	.981	.9981	.000
9E-05	.035	.076	.157	.299	.505	.732	.903	.980	.9981	.000
8E-05	.033	.073	.151	.291	.495	.724	.899	.979	.9981	.000
7E-05	.031	.069	.145	.282	.485	.715	.894	.976	.9981	.000
6E-05	.029	.065	.139	.272	.473	.705	.889	.976	.9981	.000
5E-05	.027	.061	.131	.260	.459	.692	.882	.974	.9971	.000
4E-05	.024	.056	.122	.246	.442	.677	.873	.972	.9971	.000
3E-05	.021	.050	.111	.229	.420	.657	.861	.968	.9971	.000
2E-05	.018	.042	.097	.207	.390	.629	.843	.962	.9961	.000
1E-05	.013	.032	.077	.172	.342	.579	.811	.950	.9941	.000
9E-06	.012	.031	.074	.167	.335	.572	.806	.948	.9941	.000
8E-06	.012	.029	.071	.162	.327	.563	.800	.946	.9931	.000
7E-06	.011	.028	.068	.156	.319	.554	.793	.943	.9931	.000
6E-06	.010	.026	.064	.149	.309	.543	.785	.940	.9921	.000
5E-06	.009	.024	.060	.142	.297	.530	.775	.936	.9911	.000
4E-06	.008	.022	.056	.133	.284	.514	.763	.931	.9901	.000
3E-06	.007	.019	.050	.123	.267	.494	.747	.924	.989	.999
2E-06	.006	.016	.043	.109	.244	.465	.724	.913	.987	.999
1E-06	.004	.012	.033	.088	.208	.418	.683	.893	.982	.999

N= 50

DETECTION PROBABILITY

	F	0DB	1DB	2DB	3DB	4DB	5DB	6DB	7DB	8DB	9DB
	1E-01	.109	.113	.118	.126	.137	.155	.182	.222	.282	.357
	9E-02	.099	.102	.107	.114	.125	.142	.168	.207	.266	.350
	8E-02	.088	.091	.096	.102	.113	.129	.154	.192	.249	.332
	7E-02	.077	.080	.084	.091	.101	.116	.139	.176	.231	.312
	6E-02	.066	.069	.073	.079	.088	.102	.124	.159	.213	.292
	5E-02	.056	.058	.061	.067	.075	.088	.109	.142	.193	.259
	4E-02	.045	.047	.050	.055	.062	.074	.093	.123	.171	.241
	3E-02	.034	.036	.038	.042	.048	.059	.075	.102	.143	.214
	2E-02	.023	.024	.026	.029	.034	.043	.056	.080	.118	.179
	1E-02	.012	.012	.014	.016	.019	.025	.035	.052	.082	.132
	9E-03	.011	.011	.012	.014	.018	.023	.032	.049	.077	.126
	8E-03	.009	.010	.011	.013	.016	.021	.030	.045	.072	.119
	7E-03	.008	.009	.010	.011	.014	.019	.027	.042	.068	.112
	6E-03	.007	.008	.009	.010	.013	.017	.024	.038	.062	.105
	5E-03	.006	.006	.007	.009	.011	.015	.022	.034	.057	.096
	4E-03	.005	.005	.006	.007	.009	.012	.019	.030	.050	.087
	3E-03	.004	.004	.005	.005	.007	.010	.015	.025	.043	.077
	2E-03	.002	.003	.003	.004	.005	.007	.012	.020	.035	.064
	1E-03	.001	.001	.002	.002	.003	.004	.007	.013	.024	.046
	9E-04	.001	.001	.002	.002	.003	.004	.007	.012	.023	.044
	8E-04	.001	.001	.001	.002	.002	.004	.006	.011	.021	.041
	7E-04	.001	.001	.001	.002	.002	.003	.006	.010	.020	.039
	6E-04	.001	.001	.001	.001	.002	.003	.005	.009	.018	.036
	5E-04	.001	.001	.001	.001	.002	.003	.005	.009	.017	.033
	4E-04	.001	.001	.001	.001	.001	.002	.004	.007	.015	.030
	3E-04	.000	.000	.001	.001	.001	.002	.003	.006	.013	.026
	2E-04	.000	.000	.000	.001	.001	.001	.002	.005	.010	.021
	1E-04	.000	.000	.000	.000	.000	.001	.002	.003	.007	.015
	9E-05	.000	.000	.000	.000	.000	.001	.001	.003	.006	.014
	8E-05	.000	.000	.000	.000	.000	.001	.001	.003	.006	.013
	7E-05	.000	.000	.000	.000	.000	.001	.001	.003	.006	.012
	6E-05	.000	.000	.000	.000	.000	.001	.001	.002	.005	.012
	5E-05	.000	.000	.000	.000	.000	.000	.001	.002	.005	.011
	4E-05	.000	.000	.000	.000	.000	.000	.001	.002	.004	.009
	3E-05	.000	.000	.000	.000	.000	.000	.001	.002	.003	.008
	2E-05	.000	.000	.000	.000	.000	.000	.001	.001	.003	.007
	1E-05	.000	.000	.000	.000	.000	.000	.000	.001	.002	.005
	9E-06	.000	.000	.000	.000	.000	.000	.000	.001	.002	.004
	8E-06	.000	.000	.000	.000	.000	.000	.000	.001	.002	.004
	7E-06	.000	.000	.000	.000	.000	.000	.000	.001	.001	.004
	6E-06	.000	.000	.000	.000	.000	.000	.000	.001	.001	.003
	5E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003
	4E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003
	3E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	2E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	1E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001

N= 50

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.479	.614	.754	.874	.953	.988	.9981	.0001	.0001	.000
9E-02	.462	.598	.742	.866	.949	.987	.9981	.0001	.0001	.000
8E-02	.443	.581	.728	.857	.945	.986	.9981	.0001	.0001	.000
7E-02	.423	.562	.712	.847	.940	.984	.9981	.0001	.0001	.000
6E-02	.401	.540	.694	.835	.933	.982	.9971	.0001	.0001	.000
5E-02	.377	.516	.673	.820	.926	.980	.9971	.0001	.0001	.000
4E-02	.349	.487	.648	.802	.916	.976	.9961	.0001	.0001	.000
3E-02	.315	.452	.615	.777	.902	.971	.9951	.0001	.0001	.000
2E-02	.273	.405	.570	.742	.882	.963	.993	.9991	.0001	.000
1E-02	.213	.334	.497	.680	.842	.946	.989	.9991	.0001	.000
9E-03	.205	.325	.486	.670	.836	.943	.988	.9991	.0001	.000
8E-03	.196	.314	.474	.659	.828	.940	.987	.9991	.0001	.000
7E-03	.187	.302	.461	.647	.820	.936	.986	.9981	.0001	.000
6E-03	.176	.288	.446	.633	.810	.931	.985	.9981	.0001	.000
5E-03	.165	.273	.428	.616	.797	.925	.983	.9981	.0001	.000
4E-03	.151	.255	.407	.596	.782	.917	.980	.9981	.0001	.000
3E-03	.136	.234	.381	.569	.762	.906	.977	.9971	.0001	.000
2E-03	.116	.206	.346	.532	.732	.890	.972	.9961	.0001	.000
1E-03	.088	.164	.291	.471	.679	.858	.960	.9941	.0001	.000
9E-04	.084	.159	.283	.462	.671	.853	.958	.9941	.0001	.000
8E-04	.080	.153	.274	.452	.662	.847	.956	.9931	.0001	.000
7E-04	.076	.146	.265	.440	.651	.840	.953	.9931	.0001	.000
6E-04	.072	.138	.254	.427	.639	.832	.950	.992	.9991	.000
5E-04	.066	.130	.242	.412	.624	.822	.945	.991	.9991	.000
4E-04	.060	.120	.227	.394	.606	.809	.940	.990	.9991	.000
3E-04	.054	.109	.210	.371	.583	.793	.933	.988	.9991	.000
2E-04	.045	.094	.186	.340	.551	.768	.921	.985	.9991	.000
1E-04	.033	.073	.151	.291	.495	.724	.899	.979	.9981	.000
9E-05	.032	.070	.147	.284	.487	.717	.895	.978	.9981	.000
8E-05	.030	.067	.141	.276	.478	.709	.891	.977	.9981	.000
7E-05	.028	.063	.136	.267	.468	.700	.886	.976	.9981	.000
6E-05	.026	.060	.129	.258	.456	.690	.880	.974	.9971	.000
5E-05	.024	.056	.122	.246	.442	.677	.873	.972	.9971	.000
4E-05	.022	.051	.113	.233	.425	.662	.864	.969	.9971	.000
3E-05	.019	.046	.103	.217	.404	.641	.852	.965	.9961	.000
2E-05	.016	.039	.090	.195	.375	.613	.833	.958	.9951	.000
1E-05	.012	.029	.071	.162	.327	.563	.800	.946	.9931	.000
9E-06	.011	.028	.069	.157	.321	.556	.794	.944	.9931	.000
8E-06	.010	.027	.066	.152	.313	.547	.788	.941	.9921	.000
7E-06	.010	.025	.063	.147	.305	.538	.781	.938	.9921	.000
6E-06	.009	.024	.060	.140	.295	.527	.773	.935	.9911	.000
5E-06	.008	.022	.056	.133	.284	.514	.763	.931	.9901	.000
4E-06	.007	.020	.051	.125	.271	.498	.751	.925	.989	.999
3E-06	.006	.017	.046	.115	.254	.478	.734	.918	.988	.999
2E-06	.005	.015	.040	.102	.232	.450	.711	.907	.985	.999
1E-06	.004	.011	.031	.082	.197	.404	.669	.885	.980	.999

N = 60

DETECTION PROBABILITY

[illegible]

N= 60

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.461	.595	.738	.864	.947	.987	.9981	.0001	.0001	.000
9E-02	.444	.579	.726	.855	.943	.985	.9981	.0001	.0001	.000
8E-02	.425	.562	.711	.846	.939	.984	.9981	.0001	.0001	.000
7E-02	.406	.543	.695	.835	.933	.982	.9971	.0001	.0001	.000
6E-02	.384	.522	.677	.822	.927	.980	.9971	.0001	.0001	.000
5E-02	.360	.497	.656	.807	.919	.977	.9961	.0001	.0001	.000
4E-02	.332	.469	.630	.788	.908	.973	.9951	.0001	.0001	.000
3E-02	.299	.434	.597	.763	.894	.968	.994	.9991	.0001	.000
2E-02	.259	.388	.552	.727	.872	.959	.992	.9991	.0001	.000
1E-02	.200	.319	.479	.664	.831	.941	.987	.9991	.0001	.000
9E-03	.193	.309	.469	.654	.824	.938	.987	.9991	.0001	.000
8E-03	.184	.298	.457	.643	.817	.934	.986	.9981	.0001	.000
7E-03	.175	.287	.444	.631	.808	.930	.984	.9981	.0001	.000
6E-03	.166	.274	.429	.617	.798	.925	.983	.9981	.0001	.000
5E-03	.154	.259	.412	.600	.785	.918	.981	.9981	.0001	.000
4E-03	.142	.242	.391	.579	.770	.910	.978	.9971	.0001	.000
3E-03	.127	.221	.365	.553	.749	.899	.975	.9971	.0001	.000
2E-03	.108	.195	.331	.516	.719	.882	.969	.9961	.0001	.000
1E-03	.082	.155	.277	.455	.665	.849	.956	.9931	.0001	.000
9E-04	.078	.149	.270	.446	.657	.843	.954	.9931	.0001	.000
8E-04	.075	.144	.261	.436	.647	.837	.952	.992	.9991	.000
7E-04	.071	.137	.252	.425	.637	.830	.949	.992	.9991	.000
6E-04	.066	.130	.242	.412	.624	.822	.945	.991	.9991	.000
5E-04	.062	.122	.230	.397	.610	.812	.941	.990	.9991	.000
4E-04	.056	.113	.216	.379	.592	.799	.935	.989	.9991	.000
3E-04	.050	.102	.199	.357	.568	.782	.928	.987	.9991	.000
2E-04	.042	.088	.177	.327	.536	.757	.916	.984	.9991	.000
1E-04	.031	.068	.143	.279	.481	.712	.892	.977	.9981	.000
9E-05	.029	.065	.139	.272	.473	.705	.889	.976	.9981	.000
8E-05	.028	.062	.134	.264	.464	.697	.884	.975	.9981	.000
7E-05	.026	.059	.128	.256	.453	.688	.879	.973	.9971	.000
6E-05	.024	.056	.122	.246	.442	.677	.873	.972	.9971	.000
5E-05	.022	.052	.115	.236	.428	.664	.866	.969	.9971	.000
4E-05	.020	.048	.107	.223	.411	.649	.856	.966	.9961	.000
3E-05	.018	.042	.097	.207	.390	.629	.843	.962	.9961	.000
2E-05	.015	.036	.085	.186	.362	.600	.825	.955	.9951	.000
1E-05	.011	.027	.067	.154	.316	.550	.790	.942	.9921	.000
9E-06	.010	.026	.064	.149	.309	.543	.785	.940	.9921	.000
8E-06	.009	.025	.062	.145	.301	.534	.778	.937	.9921	.000
7E-06	.009	.023	.059	.139	.293	.525	.771	.934	.9911	.000
6E-06	.008	.022	.056	.133	.284	.514	.763	.931	.9901	.000
5E-06	.008	.020	.052	.126	.273	.501	.753	.926	.989	.999
4E-06	.007	.018	.048	.118	.260	.485	.740	.921	.988	.999
3E-06	.006	.016	.043	.109	.244	.465	.724	.913	.987	.999
2E-06	.005	.014	.037	.096	.223	.438	.700	.901	.984	.999
1E-06	.003	.010	.029	.078	.189	.392	.658	.879	.979	.999

N= 70

DETECTION PROBABILITY

	F	0DB	1DB	2DB	3DB	4DB	5DB	6DB	7DB	8DB	9DB
	1E-01	.107	.110	.114	.121	.130	.145	.168	.204	.259	.338
	9E-02	.097	.099	.103	.109	.119	.133	.155	.190	.243	.321
	8E-02	.086	.089	.092	.098	.107	.120	.142	.175	.227	.304
	7E-02	.076	.078	.081	.087	.095	.108	.128	.160	.210	.285
	6E-02	.065	.067	.070	.075	.083	.095	.114	.144	.192	.265
	5E-02	.054	.056	.059	.063	.070	.081	.099	.128	.173	.243
	4E-02	.044	.045	.048	.052	.058	.068	.084	.110	.153	.21
	3E-02	.033	.034	.036	.040	.045	.053	.068	.091	.130	.192
	2E-02	.022	.023	.025	.027	.031	.038	.050	.070	.104	.159
	1E-02	.011	.012	.013	.015	.017	.022	.030	.045	.071	.116
	9E-03	.010	.011	.012	.013	.016	.020	.028	.042	.067	.110
	8E-03	.009	.010	.010	.012	.014	.018	.026	.039	.063	.105
	7E-03	.008	.008	.009	.011	.013	.017	.024	.036	.058	.098
	6E-03	.007	.007	.008	.009	.011	.015	.021	.033	.054	.092
	5E-03	.006	.006	.007	.008	.010	.013	.019	.029	.049	.084
	4E-03	.005	.005	.005	.006	.008	.011	.016	.025	.043	.076
	3E-03	.004	.004	.004	.005	.006	.009	.013	.021	.037	.066
	2E-03	.002	.003	.003	.003	.004	.006	.010	.017	.030	.055
	1E-03	.001	.001	.002	.002	.003	.004	.006	.011	.020	.039
	9E-04	.001	.001	.001	.002	.002	.003	.005	.010	.019	.038
	8E-04	.001	.001	.001	.002	.002	.003	.005	.009	.018	.035
	7E-04	.001	.001	.001	.001	.002	.003	.005	.009	.017	.033
	6E-04	.001	.001	.001	.001	.002	.003	.004	.008	.015	.031
	5E-04	.001	.001	.001	.001	.001	.002	.004	.007	.014	.028
	4E-04	.001	.001	.001	.001	.001	.002	.003	.006	.012	.025
	3E-04	.000	.000	.001	.001	.001	.002	.003	.005	.010	.022
	2E-04	.000	.000	.000	.000	.001	.001	.002	.004	.008	.018
	1E-04	.000	.000	.000	.000	.000	.001	.001	.003	.006	.013
	9E-05	.000	.000	.000	.000	.000	.001	.001	.002	.005	.012
	8E-05	.000	.000	.000	.000	.000	.001	.001	.002	.005	.011
	7E-05	.000	.000	.000	.000	.000	.001	.001	.002	.005	.011
	6E-05	.000	.000	.000	.000	.000	.000	.001	.002	.004	.010
	5E-05	.000	.000	.000	.000	.000	.000	.001	.002	.004	.009
	4E-05	.000	.000	.000	.000	.000	.000	.001	.001	.003	.008
	3E-05	.000	.000	.000	.000	.000	.000	.001	.001	.003	.007
	2E-05	.000	.000	.000	.000	.000	.000	.000	.001	.002	.005
	1E-05	.000	.000	.000	.000	.000	.000	.000	.001	.001	.004
	9E-06	.000	.000	.000	.000	.000	.000	.000	.001	.001	.004
	8E-06	.000	.000	.000	.000	.000	.000	.000	.001	.001	.003
	7E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003
	6E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003
	5E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003
	4E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	3E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	2E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	1E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001

N= 70

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.445	.580	.725	.854	.943	.985	.9981	.0001	.0001	.000
9E-02	.429	.564	.712	.846	.938	.984	.9981	.0001	.0001	.000
8E-02	.410	.546	.697	.836	.933	.982	.9971	.0001	.0001	.000
7E-02	.391	.527	.681	.825	.928	.980	.9971	.0001	.0001	.000
6E-02	.369	.506	.663	.811	.921	.978	.9961	.0001	.0001	.000
5E-02	.346	.482	.641	.796	.912	.975	.9961	.0001	.0001	.000
4E-02	.318	.453	.615	.776	.901	.971	.9951	.0001	.0001	.000
3E-02	.286	.419	.582	.751	.887	.965	.994	.9991	.0001	.000
2E-02	.247	.374	.537	.714	.864	.955	.991	.9991	.0001	.000
1E-02	.190	.306	.465	.650	.822	.936	.986	.9981	.0001	.000
9E-03	.183	.296	.454	.640	.815	.933	.985	.9981	.0001	.000
8E-03	.175	.286	.442	.629	.807	.929	.984	.9981	.0001	.000
7E-03	.166	.275	.429	.617	.798	.925	.983	.9981	.0001	.000
6E-03	.157	.262	.415	.603	.787	.919	.981	.9981	.0001	.000
5E-03	.146	.248	.398	.586	.775	.913	.979	.9971	.0001	.000
4E-03	.134	.231	.377	.565	.759	.904	.976	.9971	.0001	.000
3E-03	.120	.211	.352	.539	.738	.893	.973	.9961	.0001	.000
2E-03	.102	.185	.319	.503	.707	.875	.966	.9951	.0001	.000
1E-03	.077	.147	.266	.442	.653	.841	.953	.9931	.0001	.000
9E-04	.074	.142	.259	.433	.644	.835	.951	.992	.9991	.000
8E-04	.070	.136	.251	.423	.635	.829	.949	.992	.9991	.000
7E-04	.067	.130	.242	.412	.624	.822	.945	.991	.9991	.000
6E-04	.062	.123	.232	.400	.612	.813	.942	.990	.9991	.000
5E-04	.058	.116	.220	.385	.597	.803	.937	.989	.9991	.000
4E-04	.053	.107	.207	.367	.579	.790	.931	.988	.9991	.000
3E-04	.046	.096	.190	.345	.556	.772	.923	.986	.9991	.000
2E-04	.039	.083	.169	.316	.524	.747	.911	.983	.9991	.000
1E-04	.029	.064	.136	.269	.469	.701	.887	.976	.9981	.000
9E-05	.027	.061	.132	.262	.461	.694	.883	.975	.9981	.000
8E-05	.026	.059	.127	.255	.452	.686	.878	.973	.9971	.000
7E-05	.024	.056	.122	.246	.442	.677	.873	.972	.9971	.000
6E-05	.023	.052	.116	.237	.430	.666	.867	.970	.9971	.000
5E-05	.021	.049	.109	.227	.417	.654	.859	.967	.9971	.000
4E-05	.019	.045	.102	.214	.400	.638	.849	.964	.9961	.000
3E-05	.017	.040	.092	.199	.379	.618	.836	.960	.9951	.000
2E-05	.014	.034	.081	.178	.351	.589	.817	.953	.9941	.000
1E-05	.010	.025	.063	.147	.306	.539	.782	.939	.9921	.000
9E-06	.009	.024	.061	.143	.299	.532	.777	.936	.9911	.000
8E-06	.009	.023	.059	.138	.292	.523	.770	.934	.9911	.000
7E-06	.008	.022	.056	.133	.284	.514	.763	.931	.9901	.000
6E-06	.008	.020	.053	.127	.275	.503	.754	.927	.990	.999
5E-06	.007	.019	.049	.121	.264	.490	.744	.922	.989	.999
4E-06	.006	.017	.046	.113	.251	.475	.731	.917	.988	.999
3E-06	.005	.015	.041	.104	.236	.455	.715	.909	.986	.999
2E-06	.004	.013	.035	.092	.215	.427	.691	.897	.983	.999
1E-06	.003	.009	.027	.074	.182	.382	.648	.874	.978	.999

N = 80

DETECTION PROBABILITY

	F	0DB	1DB	2DB	3DB	4DB	5DB	6DB	7DB	8DB	9DB
	1E-01	.106	.109	.113	.119	.128	.142	.164	.196	.250	.327
	9E-02	.096	.098	.102	.108	.116	.130	.151	.184	.235	.310
	8E-02	.086	.088	.091	.096	.105	.117	.138	.169	.219	.293
	7E-02	.075	.077	.080	.085	.093	.105	.124	.155	.202	.275
	6E-02	.065	.066	.069	.074	.081	.092	.110	.139	.185	.255
	5E-02	.054	.056	.058	.062	.069	.079	.096	.123	.166	.234
	4E-02	.043	.045	.047	.051	.056	.065	.081	.106	.146	.211
	3E-02	.033	.034	.036	.039	.044	.052	.065	.087	.124	.184
	2E-02	.022	.023	.024	.027	.031	.037	.048	.067	.099	.152
	1E-02	.011	.012	.013	.014	.017	.021	.029	.043	.067	.110
	9E-03	.010	.011	.011	.013	.015	.019	.027	.040	.063	.105
	8E-03	.009	.009	.010	.012	.014	.018	.025	.037	.059	.099
	7E-03	.008	.008	.009	.010	.012	.016	.022	.034	.055	.093
	6E-03	.007	.007	.008	.009	.011	.014	.020	.031	.051	.087
	5E-03	.006	.006	.007	.008	.009	.012	.018	.027	.046	.080
	4E-03	.005	.005	.005	.006	.008	.010	.015	.024	.041	.072
	3E-03	.003	.004	.004	.005	.006	.008	.012	.020	.035	.053
	2E-03	.002	.003	.003	.003	.004	.006	.009	.016	.028	.052
	1E-03	.001	.001	.001	.002	.002	.003	.006	.010	.019	.037
	9E-04	.001	.001	.001	.002	.002	.003	.005	.009	.018	.035
	8E-04	.001	.001	.001	.001	.002	.003	.005	.009	.017	.033
	7E-04	.001	.001	.001	.001	.002	.003	.004	.008	.016	.031
	6E-04	.001	.001	.001	.001	.002	.002	.004	.007	.014	.029
	5E-04	.001	.001	.001	.001	.001	.002	.004	.007	.013	.027
	4E-04	.000	.001	.001	.001	.001	.002	.003	.006	.011	.024
	3E-04	.000	.000	.000	.001	.001	.001	.002	.005	.010	.021
	2E-04	.000	.000	.000	.000	.001	.001	.002	.004	.008	.017
	1E-04	.000	.000	.000	.000	.000	.001	.001	.002	.005	.012
	9E-05	.000	.000	.000	.000	.000	.001	.001	.002	.005	.011
	8E-05	.000	.000	.000	.000	.000	.001	.001	.002	.005	.011
	7E-05	.000	.000	.000	.000	.000	.000	.001	.002	.004	.010
	6E-05	.000	.000	.000	.000	.000	.000	.001	.002	.004	.009
	5E-05	.000	.000	.000	.000	.000	.000	.001	.002	.004	.008
	4E-05	.000	.000	.000	.000	.000	.000	.001	.001	.003	.007
	3E-05	.000	.000	.000	.000	.000	.000	.001	.001	.003	.006
	2E-05	.000	.000	.000	.000	.000	.000	.000	.001	.002	.005
	1E-05	.000	.000	.000	.000	.000	.000	.000	.001	.001	.004
	9E-06	.000	.000	.000	.000	.000	.000	.000	.001	.001	.003
	8E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003
	7E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003
	6E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003
	5E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	4E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	3E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	2E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.001
	1E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001

N= 80

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.433	.566	.713	.846	.938	.984	.9971	.0001	.0001	.0001
9E-02	.416	.550	.700	.837	.934	.982	.9971	.0001	.0001	.0001
8E-02	.398	.533	.685	.827	.929	.980	.9971	.0001	.0001	.0001
7E-02	.378	.514	.669	.815	.923	.978	.9961	.0001	.0001	.0001
6E-02	.357	.492	.650	.802	.916	.976	.9961	.0001	.0001	.0001
5E-02	.334	.468	.628	.786	.907	.972	.9951	.0001	.0001	.0001
4E-02	.307	.440	.602	.766	.895	.968	.9941	.0001	.0001	.0001
3E-02	.276	.406	.569	.740	.880	.962	.993	.9991	.0001	.0001
2E-02	.237	.361	.524	.703	.857	.952	.990	.9991	.0001	.0001
1E-02	.182	.295	.452	.638	.813	.932	.985	.9981	.0001	.0001
9E-03	.175	.286	.442	.629	.806	.929	.984	.9981	.0001	.0001
8E-03	.167	.276	.430	.618	.798	.925	.983	.9981	.0001	.0001
7E-03	.159	.265	.417	.605	.789	.920	.982	.9981	.0001	.0001
6E-03	.150	.252	.403	.591	.778	.915	.980	.9981	.0001	.0001
5E-03	.139	.238	.386	.574	.765	.908	.978	.9971	.0001	.0001
4E-03	.128	.222	.366	.553	.749	.899	.975	.9971	.0001	.0001
3E-03	.114	.203	.341	.527	.728	.887	.971	.9961	.0001	.0001
2E-03	.097	.178	.308	.491	.697	.869	.964	.9951	.0001	.0001
1E-03	.073	.141	.257	.431	.642	.834	.951	.992	.9991	.0001
9E-04	.070	.136	.250	.422	.634	.828	.948	.992	.9991	.0001
8E-04	.067	.130	.242	.412	.624	.822	.945	.991	.9991	.0001
7E-04	.063	.124	.233	.401	.614	.814	.942	.990	.9991	.0001
6E-04	.059	.118	.223	.389	.601	.806	.939	.989	.9991	.0001
5E-04	.055	.110	.212	.374	.587	.795	.934	.988	.9991	.0001
4E-04	.050	.102	.199	.357	.569	.782	.928	.987	.9991	.0001
3E-04	.044	.092	.183	.335	.545	.764	.919	.985	.9991	.0001
2E-04	.037	.079	.162	.306	.513	.738	.906	.981	.9981	.0001
1E-04	.027	.061	.131	.260	.459	.692	.882	.974	.9971	.0001
9E-05	.026	.058	.127	.254	.451	.685	.878	.973	.9971	.0001
8E-05	.024	.056	.122	.246	.442	.677	.873	.972	.9971	.0001
7E-05	.023	.053	.117	.238	.432	.668	.868	.970	.9971	.0001
6E-05	.021	.050	.111	.229	.420	.657	.861	.968	.9971	.0001
5E-05	.020	.046	.105	.219	.407	.644	.853	.965	.9961	.0001
4E-05	.018	.042	.097	.207	.390	.629	.843	.962	.9961	.0001
3E-05	.016	.038	.088	.192	.370	.608	.830	.957	.9951	.0001
2E-05	.013	.032	.077	.172	.342	.579	.811	.950	.9941	.0001
1E-05	.009	.024	.060	.142	.297	.530	.775	.936	.9911	.0001
9E-06	.009	.023	.058	.138	.291	.522	.769	.933	.9911	.0001
8E-06	.008	.022	.056	.133	.284	.514	.763	.931	.9901	.0001
7E-06	.008	.021	.053	.128	.276	.504	.756	.927	.990	.999
6E-06	.007	.019	.050	.123	.267	.494	.747	.924	.989	.999
5E-06	.007	.018	.047	.116	.256	.481	.737	.919	.988	.999
4E-06	.006	.016	.043	.109	.244	.465	.724	.913	.987	.999
3E-06	.005	.014	.039	.100	.229	.446	.707	.905	.985	.999
2E-06	.004	.012	.033	.088	.208	.418	.683	.893	.982	.999
1E-06	.003	.009	.026	.071	.176	.373	.640	.869	.976	.998

$N \approx 90$

DETECTION PROBABILITY

[illegible]

N= 90

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.422	.555	.702	.838	.934	.982	.9971	.0001	.0001	.000
9E-02	.405	.538	.689	.829	.930	.981	.9971	.0001	.0001	.000
8E-02	.387	.521	.674	.819	.924	.979	.9971	.0001	.0001	.000
7E-02	.368	.502	.657	.807	.918	.977	.9961	.0001	.0001	.000
6E-02	.347	.481	.639	.793	.911	.974	.9961	.0001	.0001	.000
5E-02	.324	.457	.617	.777	.901	.970	.9951	.0001	.0001	.000
4E-02	.297	.429	.590	.757	.890	.966	.994	.9991	.0001	.000
3E-02	.266	.395	.557	.730	.874	.960	.992	.9991	.0001	.000
2E-02	.228	.351	.513	.693	.850	.949	.990	.9991	.0001	.000
1E-02	.175	.285	.441	.628	.806	.929	.984	.9981	.0001	.000
9E-03	.168	.276	.431	.618	.798	.925	.983	.9981	.0001	.000
8E-03	.161	.267	.419	.607	.790	.921	.982	.9981	.0001	.000
7E-03	.153	.256	.407	.595	.781	.916	.980	.9981	.0001	.000
6E-03	.144	.244	.392	.580	.770	.910	.978	.9971	.0001	.000
5E-03	.134	.230	.376	.563	.757	.903	.976	.9971	.0001	.000
4E-03	.122	.214	.356	.543	.741	.894	.973	.9961	.0001	.000
3E-03	.109	.195	.332	.517	.719	.882	.969	.9961	.0001	.000
2E-03	.093	.171	.299	.481	.688	.863	.962	.9941	.0001	.000
1E-03	.070	.135	.249	.421	.633	.828	.948	.992	.9991	.000
9E-04	.067	.130	.242	.412	.624	.822	.945	.991	.9991	.000
8E-04	.063	.125	.234	.403	.615	.815	.943	.990	.9991	.000
7E-04	.060	.119	.226	.392	.604	.808	.939	.990	.9991	.000
6E-04	.056	.113	.216	.380	.592	.799	.935	.989	.9991	.000
5E-04	.052	.106	.205	.365	.577	.788	.931	.988	.9991	.000
4E-04	.047	.098	.192	.348	.559	.775	.924	.986	.9991	.000
3E-04	.042	.088	.177	.327	.536	.757	.916	.984	.9991	.000
2E-04	.035	.076	.156	.298	.504	.731	.902	.980	.9981	.000
1E-04	.026	.058	.126	.253	.450	.684	.877	.973	.9971	.000
9E-05	.024	.056	.122	.246	.442	.677	.873	.972	.9971	.000
8E-05	.023	.053	.117	.239	.433	.669	.868	.970	.9971	.000
7E-05	.022	.051	.112	.232	.423	.660	.863	.968	.9971	.000
6E-05	.020	.048	.107	.223	.411	.649	.856	.966	.9961	.000
5E-05	.019	.044	.101	.213	.398	.636	.848	.964	.9961	.000
4E-05	.017	.040	.094	.201	.382	.620	.838	.960	.9951	.000
3E-05	.015	.036	.085	.186	.362	.600	.825	.955	.9951	.000
2E-05	.012	.030	.074	.167	.334	.571	.805	.948	.9931	.000
1E-05	.009	.023	.058	.137	.290	.521	.769	.933	.9911	.000
9E-06	.008	.022	.056	.133	.284	.514	.763	.931	.9901	.000
8E-06	.008	.021	.053	.129	.277	.506	.756	.928	.990	.999
7E-06	.007	.020	.051	.124	.269	.496	.749	.925	.989	.999
6E-06	.007	.018	.048	.118	.260	.485	.740	.921	.988	.999
5E-06	.006	.017	.045	.112	.250	.473	.730	.916	.987	.999
4E-06	.006	.015	.041	.105	.238	.457	.717	.910	.986	.999
3E-06	.005	.014	.037	.096	.223	.438	.700	.901	.984	.999
2E-06	.004	.011	.032	.085	.202	.410	.675	.889	.981	.999
1E-06	.003	.008	.024	.068	.171	.366	.633	.865	.975	.998

$N = 100$

DETECTION PROBABILITY

	F	0DB	1DB	2DB	3DB	4DB	5DB	6DB	7DB	8DB	9DB
	1E-01	.105	.108	.111	.116	.124	.137	.157	.188	.237	.309
	9E-02	.095	.097	.100	.105	.113	.125	.144	.174	.222	.293
	8E-02	.085	.087	.090	.094	.101	.113	.131	.160	.206	.276
	7E-02	.074	.076	.079	.083	.090	.100	.118	.146	.190	.259
	6E-02	.064	.065	.068	.072	.078	.088	.104	.131	.173	.240
	5E-02	.053	.055	.057	.061	.066	.075	.090	.115	.155	.219
	4E-02	.043	.044	.046	.049	.054	.062	.076	.099	.136	.191
	3E-02	.032	.033	.035	.038	.042	.049	.061	.081	.115	.171
	2E-02	.022	.022	.024	.026	.029	.035	.045	.062	.091	.141
	1E-02	.011	.011	.012	.014	.016	.020	.027	.039	.061	.101
	9E-03	.010	.010	.011	.012	.014	.018	.025	.036	.058	.096
	8E-03	.009	.009	.010	.011	.013	.016	.022	.034	.054	.091
	7E-03	.008	.008	.009	.010	.012	.015	.020	.031	.050	.085
	6E-03	.007	.007	.008	.008	.010	.013	.018	.028	.046	.079
	5E-03	.006	.006	.006	.007	.009	.011	.016	.025	.042	.073
	4E-03	.004	.005	.005	.006	.007	.009	.014	.022	.037	.065
	3E-03	.003	.004	.004	.005	.006	.007	.011	.018	.031	.057
	2E-03	.002	.002	.003	.003	.004	.005	.008	.014	.025	.047
	1E-03	.001	.001	.001	.002	.002	.003	.005	.009	.017	.034
	9E-04	.001	.001	.001	.002	.002	.003	.005	.008	.016	.032
	8E-04	.001	.001	.001	.001	.002	.003	.004	.008	.015	.030
	7E-04	.001	.001	.001	.001	.002	.002	.004	.007	.014	.028
	6E-04	.001	.001	.001	.001	.001	.002	.004	.007	.013	.026
	5E-04	.001	.001	.001	.001	.001	.002	.003	.006	.012	.024
	4E-04	.000	.001	.001	.001	.001	.002	.003	.005	.010	.021
	3E-04	.000	.000	.000	.001	.001	.001	.002	.004	.009	.018
	2E-04	.000	.000	.000	.000	.001	.001	.002	.003	.007	.015
	1E-04	.000	.000	.000	.000	.000	.001	.001	.002	.005	.011
	9E-05	.000	.000	.000	.000	.000	.001	.001	.002	.004	.010
	8E-05	.000	.000	.000	.000	.000	.000	.001	.002	.004	.009
	7E-05	.000	.000	.000	.000	.000	.000	.001	.002	.004	.009
	6E-05	.000	.000	.000	.000	.000	.000	.001	.002	.003	.008
	5E-05	.000	.000	.000	.000	.000	.000	.001	.001	.003	.007
	4E-05	.000	.000	.000	.000	.000	.000	.001	.001	.003	.007
	3E-05	.000	.000	.000	.000	.000	.000	.000	.001	.002	.006
	2E-05	.000	.000	.000	.000	.000	.000	.000	.001	.002	.005
	1E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003
	9E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003
	8E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003
	7E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003
	6E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	5E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	4E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	3E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	2E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	1E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001

N= 100

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.412	.544	.693	.831	.931	.981	.9971	.0001	.0001	.000
9E-02	.395	.528	.679	.822	.925	.979	.9971	.0001	.0001	.000
8E-02	.378	.511	.664	.811	.920	.977	.9961	.0001	.0001	.000
7E-02	.358	.492	.643	.799	.914	.975	.9961	.0001	.0001	.000
6E-02	.338	.470	.628	.785	.906	.972	.9951	.0001	.0001	.000
5E-02	.315	.446	.606	.769	.897	.969	.9941	.0001	.0001	.000
4E-02	.289	.419	.580	.748	.885	.964	.993	.9991	.0001	.000
3E-02	.258	.385	.547	.721	.868	.957	.992	.9991	.0001	.000
2E-02	.221	.342	.502	.683	.844	.947	.989	.9991	.0001	.000
1E-02	.169	.277	.431	.618	.799	.925	.983	.9981	.0001	.000
9E-03	.162	.268	.421	.609	.791	.921	.982	.9981	.0001	.000
8E-03	.155	.259	.410	.598	.783	.917	.981	.9981	.0001	.000
7E-03	.147	.248	.397	.585	.774	.912	.979	.9971	.0001	.000
6E-03	.138	.236	.383	.571	.763	.906	.977	.9971	.0001	.000
5E-03	.129	.223	.367	.554	.749	.899	.975	.9971	.0001	.000
4E-03	.118	.208	.347	.533	.733	.890	.972	.9961	.0001	.000
3E-03	.105	.189	.323	.507	.711	.877	.967	.9951	.0001	.000
2E-03	.089	.165	.291	.471	.680	.858	.960	.9941	.0001	.000
1E-03	.067	.130	.242	.412	.624	.822	.946	.991	.9991	.000
9E-04	.064	.126	.235	.404	.616	.816	.943	.990	.9991	.000
8E-04	.061	.121	.228	.394	.606	.809	.940	.990	.9991	.000
7E-04	.057	.115	.219	.384	.596	.802	.937	.989	.9991	.000
6E-04	.054	.109	.210	.371	.583	.793	.933	.988	.9991	.000
5E-04	.050	.102	.199	.357	.569	.782	.928	.987	.9991	.000
4E-04	.045	.094	.187	.340	.551	.768	.921	.985	.9991	.000
3E-04	.040	.085	.171	.319	.528	.750	.912	.983	.9991	.000
2E-04	.033	.073	.152	.291	.495	.724	.899	.979	.9981	.000
1E-04	.024	.056	.122	.246	.442	.677	.873	.972	.9971	.000
9E-05	.023	.054	.118	.240	.434	.670	.869	.970	.9971	.000
8E-05	.022	.051	.114	.233	.425	.662	.864	.969	.9971	.000
7E-05	.021	.048	.109	.225	.415	.652	.858	.967	.9961	.000
6E-05	.019	.046	.103	.217	.404	.641	.852	.965	.9961	.000
5E-05	.018	.042	.097	.207	.391	.629	.844	.962	.9961	.000
4E-05	.016	.039	.090	.195	.375	.613	.833	.958	.9951	.000
3E-05	.014	.034	.082	.181	.355	.592	.820	.953	.9941	.000
2E-05	.012	.029	.071	.162	.327	.563	.800	.946	.9931	.000
1E-05	.008	.022	.056	.133	.284	.514	.763	.931	.9901	.000
9E-06	.008	.021	.054	.129	.278	.506	.757	.928	.990	.999
8E-06	.007	.020	.051	.125	.271	.498	.751	.925	.989	.999
7E-06	.007	.019	.049	.120	.263	.489	.743	.922	.989	.999
6E-06	.006	.017	.046	.115	.254	.478	.734	.918	.988	.999
5E-06	.006	.016	.043	.109	.244	.465	.724	.913	.987	.999
4E-06	.005	.015	.040	.102	.232	.450	.711	.907	.985	.999
3E-06	.005	.013	.036	.093	.217	.430	.694	.898	.983	.999
2E-06	.004	.011	.031	.082	.197	.404	.669	.885	.980	.999
1E-06	.003	.008	.023	.066	.167	.359	.626	.861	.974	.998

N = 200

DETECTION PROBABILITY

	F	0DB	1DB	2DB	3DB	4DB	5DB	6DB	7DB	8DB	9DB
	1E-01	.103	.105	.107	.110	.116	.124	.139	.162	.201	.262
	9E-02	.093	.094	.096	.100	.105	.113	.127	.150	.187	.247
	8E-02	.083	.084	.086	.089	.094	.102	.115	.137	.173	.231
	7E-02	.073	.074	.075	.078	.083	.090	.103	.123	.158	.215
	6E-02	.062	.063	.065	.067	.072	.078	.090	.110	.143	.197
	5E-02	.052	.053	.054	.057	.060	.067	.077	.096	.127	.179
	4E-02	.042	.042	.044	.046	.049	.055	.064	.081	.110	.159
	3E-02	.031	.032	.033	.035	.037	.042	.051	.065	.091	.136
	2E-02	.021	.021	.022	.024	.026	.030	.036	.049	.071	.110
	1E-02	.011	.011	.011	.012	.014	.016	.021	.030	.046	.077
	9E-03	.010	.010	.010	.011	.012	.015	.019	.028	.044	.073
	8E-03	.008	.009	.009	.010	.011	.013	.018	.026	.041	.069
	7E-03	.007	.008	.008	.009	.010	.012	.016	.023	.038	.065
	6E-03	.006	.007	.007	.007	.009	.010	.014	.021	.034	.060
	5E-03	.005	.006	.006	.006	.007	.009	.012	.018	.031	.055
	4E-03	.004	.004	.005	.005	.006	.007	.010	.016	.027	.049
	3E-03	.003	.003	.004	.004	.005	.006	.008	.013	.023	.042
	2E-03	.002	.002	.002	.003	.003	.004	.006	.010	.018	.035
	1E-03	.001	.001	.001	.001	.002	.002	.004	.006	.012	.024
	9E-04	.001	.001	.001	.001	.002	.002	.003	.006	.011	.023
	8E-04	.001	.001	.001	.001	.001	.002	.003	.005	.011	.022
	7E-04	.001	.001	.001	.001	.001	.002	.003	.005	.010	.020
	6E-04	.001	.001	.001	.001	.001	.002	.003	.005	.009	.019
	5E-04	.001	.001	.001	.001	.001	.001	.002	.004	.008	.017
	4E-04	.000	.000	.001	.001	.001	.001	.002	.003	.007	.015
	3E-04	.000	.000	.000	.000	.001	.001	.002	.003	.006	.013
	2E-04	.000	.000	.000	.000	.000	.001	.001	.002	.005	.011
	1E-04	.000	.000	.000	.000	.000	.000	.001	.001	.003	.007
	9E-05	.000	.000	.000	.000	.000	.000	.001	.001	.003	.007
	8E-05	.000	.000	.000	.000	.000	.000	.001	.001	.003	.007
	7E-05	.000	.000	.000	.000	.000	.000	.001	.001	.003	.006
	6E-05	.000	.000	.000	.000	.000	.000	.000	.001	.002	.006
	5E-05	.000	.000	.000	.000	.000	.000	.000	.001	.002	.005
	4E-05	.000	.000	.000	.000	.000	.000	.000	.001	.002	.005
	3E-05	.000	.000	.000	.000	.000	.000	.000	.001	.002	.004
	2E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003
	1E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	9E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	8E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	7E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	6E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	5E-06	.000	.000	.000	.000	.000	.000	.000	.000	.001	.001
	4E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	3E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	2E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	1E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001

N= 200

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.353	.478	.630	.783	.903	.971	.995	1.000	1.000	1.000
9E-02	.337	.462	.615	.772	.897	.968	.994	.999	1.000	1.000
8E-02	.320	.445	.599	.760	.890	.966	.994	.999	1.000	1.000
7E-02	.302	.426	.582	.747	.883	.963	.993	.999	1.000	1.000
6E-02	.282	.405	.563	.731	.873	.959	.992	.999	1.000	1.000
5E-02	.261	.382	.540	.713	.862	.954	.991	.999	1.000	1.000
4E-02	.238	.356	.514	.691	.848	.948	.989	.999	1.000	1.000
3E-02	.211	.325	.481	.662	.829	.939	.987	.999	1.000	1.000
2E-02	.178	.285	.438	.623	.801	.926	.983	.998	1.000	1.000
1E-02	.133	.227	.370	.556	.751	.900	.975	.997	1.000	1.000
9E-03	.127	.219	.361	.547	.743	.895	.973	.997	1.000	1.000
8E-03	.121	.211	.350	.536	.734	.890	.972	.996	1.000	1.000
7E-03	.115	.202	.338	.523	.724	.885	.970	.996	1.000	1.000
6E-03	.108	.192	.325	.509	.712	.878	.967	.995	1.000	1.000
5E-03	.100	.180	.310	.493	.698	.869	.964	.995	1.000	1.000
4E-03	.091	.167	.293	.473	.680	.858	.960	.994	1.000	1.000
3E-03	.080	.151	.271	.447	.657	.844	.954	.993	1.000	1.000
2E-03	.068	.131	.243	.413	.625	.822	.946	.991	.999	1.000
1E-03	.050	.102	.200	.358	.569	.782	.928	.987	.999	1.000
9E-04	.048	.099	.193	.349	.560	.776	.925	.986	.999	1.000
8E-04	.046	.094	.187	.341	.551	.768	.921	.985	.999	1.000
7E-04	.043	.090	.180	.331	.540	.760	.917	.984	.999	1.000
6E-04	.040	.085	.172	.320	.528	.750	.912	.983	.999	1.000
5E-04	.037	.079	.162	.307	.513	.738	.906	.981	.998	1.000
4E-04	.034	.073	.152	.291	.496	.724	.899	.979	.998	1.000
3E-04	.029	.065	.139	.272	.473	.705	.889	.976	.998	1.000
2E-04	.025	.056	.122	.247	.442	.677	.873	.972	.997	1.000
1E-04	.018	.042	.097	.207	.391	.629	.844	.962	.996	1.000
9E-05	.017	.041	.094	.201	.383	.621	.839	.960	.996	1.000
8E-05	.016	.039	.090	.195	.375	.613	.833	.958	.995	1.000
7E-05	.015	.037	.086	.188	.365	.603	.827	.956	.995	1.000
6E-05	.014	.034	.082	.181	.355	.592	.820	.953	.994	1.000
5E-05	.013	.032	.077	.172	.342	.579	.811	.950	.994	1.000
4E-05	.012	.029	.071	.162	.327	.563	.800	.946	.993	1.000
3E-05	.010	.026	.064	.150	.309	.543	.785	.940	.992	1.000
2E-05	.008	.022	.056	.133	.284	.514	.763	.931	.990	1.000
1E-05	.006	.016	.043	.109	.244	.465	.724	.913	.987	.999
9E-06	.006	.015	.042	.105	.238	.458	.718	.910	.986	.999
8E-06	.005	.015	.040	.102	.232	.450	.711	.907	.985	.999
7E-06	.005	.014	.038	.098	.225	.441	.703	.903	.984	.999
6E-06	.005	.013	.036	.093	.217	.430	.694	.898	.983	.999
5E-06	.004	.012	.033	.088	.208	.418	.683	.893	.982	.999
4E-06	.004	.011	.031	.082	.197	.404	.669	.885	.980	.999
3E-06	.003	.009	.027	.075	.184	.385	.651	.876	.978	.999
2E-06	.003	.008	.023	.066	.167	.359	.626	.861	.974	.998
1E-06	.002	.006	.018	.053	.140	.318	.582	.835	.967	.997

N= 300

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.322	.442	.593	.752	.885	.963	.993	.999	1.000	1.000
9E-02	.307	.426	.578	.741	.878	.961	.992	.999	1.000	1.000
8E-02	.290	.409	.562	.728	.870	.957	.992	.999	1.000	1.000
7E-02	.273	.390	.544	.714	.862	.954	.991	.999	1.000	1.000
6E-02	.254	.370	.525	.698	.851	.949	.990	.999	1.000	1.000
5E-02	.234	.348	.502	.679	.839	.944	.988	.999	1.000	1.000
4E-02	.212	.322	.476	.656	.824	.937	.986	.998	1.000	1.000
3E-02	.186	.292	.444	.627	.803	.927	.983	.998	1.000	1.000
2E-02	.156	.255	.401	.587	.774	.912	.979	.997	1.000	1.000
1E-02	.116	.201	.337	.520	.721	.883	.969	.996	1.000	1.000
9E-03	.110	.194	.328	.511	.713	.878	.967	.995	1.000	1.000
8E-03	.105	.186	.318	.500	.704	.873	.965	.995	1.000	1.000
7E-03	.099	.178	.307	.488	.693	.866	.963	.995	1.000	1.000
6E-03	.093	.169	.294	.474	.681	.859	.960	.994	1.000	1.000
5E-03	.086	.158	.280	.458	.666	.849	.957	.993	1.000	1.000
4E-03	.078	.146	.264	.438	.648	.838	.952	.992	.999	1.000
3E-03	.069	.132	.244	.414	.625	.822	.946	.991	.999	1.000
2E-03	.058	.114	.217	.381	.592	.799	.936	.989	.999	1.000
1E-03	.042	.089	.177	.327	.536	.757	.916	.984	.999	1.000
9E-04	.040	.085	.172	.320	.528	.750	.912	.983	.999	1.000
8E-04	.038	.082	.166	.311	.518	.743	.909	.982	.998	1.000
7E-04	.036	.078	.159	.302	.508	.734	.904	.981	.998	1.000
6E-04	.034	.073	.152	.291	.496	.724	.899	.979	.998	1.000
5E-04	.031	.068	.144	.279	.481	.712	.892	.977	.998	1.000
4E-04	.028	.063	.134	.265	.464	.697	.884	.975	.998	1.000
3E-04	.025	.056	.122	.247	.442	.677	.873	.972	.997	1.000
2E-04	.020	.048	.107	.223	.412	.649	.856	.966	.996	1.000
1E-04	.015	.036	.085	.186	.352	.600	.825	.955	.995	1.000
9E-05	.014	.035	.082	.181	.355	.592	.820	.953	.994	1.000
8E-05	.013	.033	.079	.175	.347	.584	.814	.951	.994	1.000
7E-05	.012	.031	.075	.169	.338	.574	.807	.949	.994	1.000
6E-05	.012	.029	.071	.162	.327	.563	.800	.946	.993	1.000
5E-05	.011	.027	.067	.154	.316	.550	.790	.942	.992	1.000
4E-05	.010	.025	.062	.145	.301	.534	.778	.937	.992	1.000
3E-05	.008	.022	.055	.133	.284	.514	.763	.931	.990	1.000
2E-05	.007	.018	.048	.118	.260	.485	.740	.921	.988	.999
1E-05	.005	.014	.037	.096	.223	.438	.700	.901	.984	.999
9E-06	.005	.013	.036	.093	.217	.430	.694	.898	.983	.999
8E-06	.004	.012	.034	.090	.211	.423	.686	.895	.983	.999
7E-06	.004	.012	.033	.086	.205	.414	.678	.890	.982	.999
6E-06	.004	.011	.031	.082	.197	.404	.669	.885	.980	.999
5E-06	.003	.010	.029	.078	.189	.392	.658	.879	.979	.999
4E-06	.003	.009	.026	.072	.179	.377	.644	.872	.977	.998
3E-06	.003	.008	.023	.066	.167	.359	.626	.861	.974	.998
2E-06	.002	.007	.020	.058	.151	.335	.600	.846	.970	.998
1E-06	.001	.005	.015	.046	.126	.295	.556	.816	.961	.997

	F	0DB	1DB	2DB	3DB	4DB	5DB	6DB	7DB	8DB	9DB
	1E-01	.102	.103	.104	.106	.110	.116	.126	.144	.174	.223
	9E-02	.092	.093	.094	.096	.099	.105	.115	.132	.161	.209
	8E-02	.082	.082	.084	.085	.089	.094	.103	.120	.148	.195
	7E-02	.071	.072	.073	.075	.078	.083	.092	.107	.134	.180
	6E-02	.061	.062	.063	.065	.067	.072	.080	.095	.120	.154
	5E-02	.051	.052	.053	.054	.056	.061	.068	.082	.105	.147
	4E-02	.041	.041	.042	.043	.046	.049	.056	.068	.090	.129
	3E-02	.031	.031	.032	.033	.035	.038	.044	.054	.074	.109
	2E-02	.021	.021	.021	.022	.024	.026	.031	.040	.056	.087
	1E-02	.010	.011	.011	.011	.012	.014	.017	.023	.036	.059
	9E-03	.009	.009	.010	.010	.011	.013	.016	.022	.033	.056
	8E-03	.008	.008	.009	.009	.010	.011	.014	.020	.031	.053
	7E-03	.007	.007	.008	.008	.009	.010	.013	.018	.028	.049
	6E-03	.006	.006	.007	.007	.008	.009	.011	.016	.026	.045
	5E-03	.005	.005	.005	.006	.006	.007	.010	.014	.023	.041
	4E-03	.004	.004	.004	.005	.005	.006	.008	.012	.020	.036
	3E-03	.003	.003	.003	.004	.004	.005	.006	.010	.017	.031
	2E-03	.002	.002	.002	.002	.003	.003	.005	.007	.013	.025
	1E-03	.001	.001	.001	.001	.001	.002	.003	.005	.009	.018
	9E-04	.001	.001	.001	.001	.001	.002	.002	.004	.008	.017
	8E-04	.001	.001	.001	.001	.001	.002	.002	.004	.007	.016
	7E-04	.001	.001	.001	.001	.001	.001	.002	.004	.007	.015
	6E-04	.001	.001	.001	.001	.001	.001	.002	.003	.006	.013
	5E-04	.001	.001	.001	.001	.001	.001	.002	.003	.006	.012
	4E-04	.000	.000	.000	.001	.001	.001	.001	.002	.005	.011
	3E-04	.000	.000	.000	.000	.000	.001	.001	.002	.004	.009
	2E-04	.000	.000	.000	.000	.000	.000	.001	.002	.003	.008
	1E-04	.000	.000	.000	.000	.000	.000	.000	.001	.002	.005
	9E-05	.000	.000	.000	.000	.000	.000	.000	.001	.002	.005
	8E-05	.000	.000	.000	.000	.000	.000	.000	.001	.002	.005
	7E-05	.000	.000	.000	.000	.000	.000	.000	.001	.002	.004
	6E-05	.000	.000	.000	.000	.000	.000	.000	.001	.002	.004
	5E-05	.000	.000	.000	.000	.000	.000	.000	.001	.001	.004
	4E-05	.000	.000	.000	.000	.000	.000	.000	.001	.001	.003
	3E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003
	2E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	1E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.001
	9E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	8E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	7E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	6E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	5E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	4E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	3E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	2E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	1E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

N= 400

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.302	.417	.567	.730	.871	.957	.992	.9991	.0001	.000
9E-02	.287	.401	.552	.718	.863	.954	.991	.9991	.0001	.000
8E-02	.271	.384	.536	.705	.855	.951	.990	.9991	.0001	.000
7E-02	.254	.366	.518	.691	.846	.947	.989	.9991	.0001	.000
6E-02	.236	.347	.498	.674	.835	.942	.988	.9991	.0001	.000
5E-02	.216	.325	.476	.655	.822	.936	.986	.9981	.0001	.000
4E-02	.195	.300	.450	.631	.806	.928	.984	.9981	.0001	.000
3E-02	.171	.271	.418	.602	.784	.917	.980	.9981	.0001	.000
2E-02	.142	.235	.377	.561	.754	.901	.975	.9971	.0001	.000
1E-02	.104	.184	.314	.495	.699	.870	.964	.9951	.0001	.000
9E-03	.100	.178	.305	.486	.691	.865	.963	.9951	.0001	.000
8E-03	.095	.170	.296	.475	.682	.859	.960	.9941	.0001	.000
7E-03	.089	.163	.285	.463	.671	.852	.958	.9941	.0001	.000
6E-03	.083	.154	.274	.449	.659	.844	.955	.9931	.0001	.000
5E-03	.077	.144	.260	.433	.644	.835	.951	.992	.9991	.000
4E-03	.070	.133	.244	.414	.626	.822	.946	.991	.9991	.000
3E-03	.061	.120	.225	.390	.602	.806	.939	.989	.9991	.000
2E-03	.051	.103	.200	.358	.569	.782	.928	.987	.9991	.000
1E-03	.038	.080	.163	.307	.513	.739	.907	.981	.9981	.000
9E-04	.036	.077	.158	.300	.505	.732	.903	.980	.9981	.000
8E-04	.034	.073	.152	.291	.496	.724	.899	.979	.9981	.000
7E-04	.032	.070	.146	.282	.485	.715	.894	.978	.9981	.000
6E-04	.030	.066	.139	.272	.473	.705	.889	.976	.9981	.000
5E-04	.027	.061	.131	.261	.459	.692	.882	.974	.9981	.000
4E-04	.025	.056	.122	.247	.442	.677	.873	.972	.9971	.000
3E-04	.022	.050	.111	.230	.420	.657	.861	.968	.9971	.000
2E-04	.018	.043	.097	.207	.391	.629	.844	.962	.9961	.000
1E-04	.013	.032	.077	.172	.342	.579	.811	.950	.9941	.000
9E-05	.012	.031	.074	.167	.335	.572	.806	.948	.9941	.000
8E-05	.012	.029	.071	.162	.327	.563	.800	.946	.9931	.000
7E-05	.011	.028	.068	.156	.319	.554	.793	.943	.9931	.000
6E-05	.010	.026	.064	.150	.309	.543	.785	.940	.9921	.000
5E-05	.009	.024	.060	.142	.297	.530	.775	.936	.9911	.000
4E-05	.008	.022	.056	.133	.284	.514	.763	.931	.9901	.000
3E-05	.007	.019	.050	.123	.267	.494	.747	.924	.989	.999
2E-05	.006	.016	.043	.109	.244	.465	.724	.913	.987	.999
1E-05	.004	.012	.033	.088	.208	.418	.683	.893	.982	.999
9E-06	.004	.011	.032	.085	.203	.411	.676	.889	.981	.999
8E-06	.004	.011	.031	.082	.197	.404	.669	.885	.980	.999
7E-06	.003	.010	.029	.079	.191	.395	.661	.881	.979	.999
6E-06	.003	.009	.027	.075	.184	.385	.651	.876	.978	.999
5E-06	.003	.009	.026	.071	.176	.373	.640	.869	.976	.998
4E-06	.003	.008	.023	.066	.167	.359	.626	.861	.974	.998
3E-06	.002	.007	.021	.060	.155	.342	.608	.851	.971	.998
2E-06	.002	.006	.018	.053	.140	.318	.582	.835	.967	.997
1E-06	.001	.004	.013	.042	.116	.279	.538	.805	.957	.996

$$\text{rot}(\mathbf{a}, \mathbf{b}, \mathbf{c}) = \begin{vmatrix} \mathbf{a} & \mathbf{b} & \mathbf{c} \\ \mathbf{c} & \mathbf{a} & \mathbf{b} \\ \mathbf{b} & \mathbf{c} & \mathbf{a} \end{vmatrix} = \mathbf{a} \cdot \mathbf{b} \times \mathbf{c} + \mathbf{b} \cdot \mathbf{c} \times \mathbf{a} + \mathbf{c} \cdot \mathbf{a} \times \mathbf{b}.$$

	F	0DB	1DB	2DB	3DB	4DB	5DB	6DB	7DB	8DB	9DB
	1E-01	.102	.102	.104	.105	.109	.114	.123	.139	.166	.213
	9E-02	.091	.092	.093	.095	.098	.103	.112	.127	.154	.199
	8E-02	.081	.082	.083	.085	.087	.092	.101	.115	.141	.185
	7E-02	.071	.072	.073	.074	.077	.081	.089	.103	.128	.170
	6E-02	.061	.062	.062	.064	.066	.070	.078	.091	.114	.154
	5E-02	.051	.051	.052	.053	.056	.059	.066	.078	.100	.138
	4E-02	.041	.041	.042	.043	.045	.048	.054	.065	.085	.121
	3E-02	.031	.031	.032	.032	.034	.037	.042	.052	.069	.102
	2E-02	.020	.021	.021	.022	.023	.025	.029	.037	.052	.081
	1E-02	.010	.010	.011	.011	.012	.013	.016	.022	.033	.055
	9E-03	.009	.009	.010	.010	.011	.012	.015	.020	.031	.052
	8E-03	.008	.008	.009	.009	.010	.011	.013	.018	.028	.048
	7E-03	.007	.007	.008	.008	.008	.010	.012	.017	.026	.045
	6E-03	.006	.006	.006	.007	.007	.008	.011	.015	.024	.041
	5E-03	.005	.005	.005	.006	.006	.007	.009	.013	.021	.037
	4E-03	.004	.004	.004	.005	.005	.006	.008	.011	.018	.033
	3E-03	.003	.003	.003	.003	.004	.005	.006	.009	.015	.028
	2E-03	.002	.002	.002	.002	.003	.003	.004	.007	.012	.023
	1E-03	.001	.001	.001	.001	.001	.002	.002	.004	.008	.016
	9E-04	.001	.001	.001	.001	.001	.002	.002	.004	.007	.015
	8E-04	.001	.001	.001	.001	.001	.001	.002	.003	.007	.014
	7E-04	.001	.001	.001	.001	.001	.001	.002	.003	.006	.013
	6E-04	.001	.001	.001	.001	.001	.001	.002	.003	.006	.012
	5E-04	.001	.001	.001	.001	.001	.001	.001	.003	.005	.011
	4E-04	.000	.000	.000	.001	.001	.001	.001	.002	.004	.010
	3E-04	.000	.000	.000	.000	.000	.001	.001	.002	.004	.008
	2E-04	.000	.000	.000	.000	.000	.000	.001	.001	.003	.007
	1E-04	.000	.000	.000	.000	.000	.000	.000	.001	.002	.005
	9E-05	.000	.000	.000	.000	.000	.000	.000	.001	.002	.004
	8E-05	.000	.000	.000	.000	.000	.000	.000	.001	.002	.004
	7E-05	.000	.000	.000	.000	.000	.000	.000	.001	.002	.004
	6E-05	.000	.000	.000	.000	.000	.000	.000	.001	.001	.003
	5E-05	.000	.000	.000	.000	.000	.000	.000	.001	.001	.003
	4E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003
	3E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	2E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	1E-05	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	9E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	8E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	7E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	6E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	5E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	4E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	3E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	2E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	1E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

N= 500

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.287	.399	.547	.713	.859	.952	.990	.9991	.0001	.000
9E-02	.272	.383	.532	.701	.851	.949	.989	.9991	.0001	.000
8E-02	.257	.366	.516	.687	.843	.945	.988	.9991	.0001	.000
7E-02	.240	.349	.498	.672	.833	.941	.987	.9991	.0001	.000
6E-02	.223	.329	.478	.655	.822	.935	.986	.9981	.0001	.000
5E-02	.204	.308	.456	.636	.808	.929	.984	.9981	.0001	.000
4E-02	.183	.284	.430	.612	.791	.920	.981	.9981	.0001	.000
3E-02	.160	.256	.399	.582	.769	.909	.978	.9971	.0001	.000
2E-02	.132	.221	.358	.542	.738	.892	.972	.9961	.0001	.000
1E-02	.096	.172	.297	.476	.682	.859	.960	.9941	.0001	.000
9E-03	.092	.166	.289	.466	.674	.854	.958	.9941	.0001	.000
8E-03	.087	.159	.280	.456	.664	.848	.956	.9931	.0001	.000
7E-03	.082	.151	.270	.444	.653	.841	.953	.9931	.0001	.000
6E-03	.077	.143	.258	.431	.641	.833	.950	.992	.9991	.000
5E-03	.071	.134	.245	.415	.626	.823	.946	.991	.9991	.000
4E-03	.064	.124	.230	.396	.608	.810	.940	.990	.9991	.000
3E-03	.056	.111	.212	.373	.584	.793	.933	.988	.9991	.000
2E-03	.047	.096	.188	.341	.551	.769	.921	.985	.9991	.000
1E-03	.034	.073	.152	.292	.496	.724	.899	.979	.9981	.000
9E-04	.033	.071	.147	.284	.488	.717	.895	.978	.9981	.000
8E-04	.031	.067	.142	.277	.478	.709	.891	.977	.9981	.000
7E-04	.029	.064	.136	.268	.468	.700	.886	.976	.9981	.000
6E-04	.027	.060	.130	.258	.456	.690	.880	.974	.9971	.000
5E-04	.025	.056	.122	.247	.442	.677	.873	.972	.9971	.000
4E-04	.022	.051	.114	.233	.425	.662	.864	.969	.9971	.000
3E-04	.020	.046	.104	.217	.404	.642	.852	.965	.9961	.000
2E-04	.016	.039	.090	.195	.375	.613	.833	.958	.9951	.000
1E-04	.012	.029	.071	.162	.327	.563	.800	.946	.9931	.000
9E-05	.011	.028	.069	.157	.321	.556	.794	.944	.9931	.000
8E-05	.010	.027	.066	.152	.313	.547	.788	.941	.9921	.000
7E-05	.010	.025	.063	.147	.305	.538	.781	.938	.9921	.000
6E-05	.009	.024	.060	.140	.295	.527	.773	.935	.9911	.000
5E-05	.008	.022	.056	.133	.284	.514	.763	.931	.9901	.000
4E-05	.007	.020	.052	.125	.271	.498	.751	.925	.989	.999
3E-05	.006	.018	.046	.115	.254	.478	.734	.918	.988	.999
2E-05	.005	.015	.040	.102	.232	.450	.711	.907	.985	.999
1E-05	.004	.011	.031	.082	.197	.404	.669	.885	.980	.999
9E-06	.004	.010	.029	.080	.193	.397	.663	.882	.980	.999
8E-06	.003	.010	.028	.077	.187	.389	.655	.878	.979	.999
7E-06	.003	.009	.027	.073	.181	.380	.647	.873	.977	.998
6E-06	.003	.009	.025	.070	.175	.371	.637	.868	.976	.998
5E-06	.003	.008	.023	.066	.167	.359	.626	.861	.974	.998
4E-06	.002	.007	.021	.061	.158	.346	.612	.853	.972	.998
3E-06	.002	.006	.019	.056	.147	.328	.594	.842	.969	.998
2E-06	.002	.005	.016	.049	.132	.305	.568	.825	.964	.997
1E-06	.001	.004	.012	.038	.110	.267	.524	.795	.954	.996

N= 600

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.276	.384	.531	.698	.849	.947	.989	.999	1.000	1.000
9E-02	.261	.369	.516	.686	.841	.944	.988	.999	1.000	1.000
8E-02	.246	.352	.500	.672	.832	.940	.987	.999	1.000	1.000
7E-02	.230	.335	.482	.657	.822	.935	.986	.998	1.000	1.000
6E-02	.212	.315	.462	.640	.810	.930	.984	.998	1.000	1.000
5E-02	.194	.294	.440	.620	.796	.923	.982	.998	1.000	1.000
4E-02	.174	.271	.415	.596	.779	.914	.979	.997	1.000	1.000
3E-02	.151	.243	.384	.566	.757	.902	.976	.997	1.000	1.000
2E-02	.125	.210	.344	.526	.724	.884	.970	.996	1.000	1.000
1E-02	.090	.163	.284	.461	.668	.850	.957	.993	1.000	1.000
9E-03	.086	.157	.276	.451	.660	.845	.955	.993	1.000	1.000
8E-03	.082	.150	.267	.441	.650	.839	.952	.992	.999	1.000
7E-03	.077	.143	.257	.429	.639	.831	.949	.992	.999	1.000
6E-03	.072	.135	.246	.416	.626	.823	.946	.991	.999	1.000
5E-03	.066	.126	.233	.400	.612	.813	.941	.990	.999	1.000
4E-03	.059	.116	.219	.382	.593	.800	.936	.989	.999	1.000
3E-03	.052	.104	.201	.359	.570	.782	.928	.987	.999	1.000
2E-03	.043	.090	.178	.328	.537	.757	.916	.984	.999	1.000
1E-03	.032	.069	.144	.279	.482	.712	.892	.977	.998	1.000
9E-04	.030	.066	.139	.272	.473	.705	.889	.976	.998	1.000
8E-04	.028	.063	.134	.265	.464	.697	.884	.975	.998	1.000
7E-04	.027	.060	.129	.256	.454	.688	.879	.974	.997	1.000
6E-04	.025	.056	.122	.247	.442	.677	.873	.972	.997	1.000
5E-04	.023	.052	.115	.236	.428	.665	.866	.969	.997	1.000
4E-04	.021	.048	.107	.223	.412	.649	.856	.966	.996	1.000
3E-04	.018	.043	.098	.207	.391	.629	.844	.962	.996	1.000
2E-04	.015	.036	.085	.186	.362	.600	.825	.955	.995	1.000
1E-04	.011	.027	.067	.154	.316	.550	.790	.942	.992	1.000
9E-05	.010	.026	.065	.150	.309	.543	.785	.940	.992	1.000
8E-05	.010	.025	.062	.145	.301	.534	.778	.937	.992	1.000
7E-05	.009	.023	.059	.139	.293	.525	.771	.934	.991	1.000
6E-05	.008	.022	.056	.133	.284	.514	.763	.931	.990	1.000
5E-05	.008	.020	.052	.126	.273	.501	.753	.926	.989	.999
4E-05	.007	.018	.048	.118	.260	.485	.740	.921	.988	.999
3E-05	.006	.016	.043	.109	.244	.465	.724	.913	.987	.999
2E-05	.005	.014	.037	.096	.223	.438	.700	.901	.984	.999
1E-05	.003	.010	.029	.078	.189	.392	.658	.879	.979	.999
9E-06	.003	.009	.027	.075	.184	.385	.651	.876	.978	.999
8E-06	.003	.009	.026	.072	.179	.377	.644	.872	.977	.998
7E-06	.003	.008	.025	.069	.173	.369	.636	.867	.976	.998
6E-06	.003	.008	.023	.066	.167	.359	.626	.861	.974	.998
5E-06	.002	.007	.022	.062	.159	.348	.614	.855	.972	.998
4E-06	.002	.007	.020	.058	.151	.335	.600	.846	.970	.998
3E-06	.002	.006	.018	.053	.140	.318	.582	.835	.967	.997
2E-06	.001	.005	.015	.046	.126	.295	.556	.818	.961	.997
1E-06	.001	.003	.011	.036	.104	.258	.512	.787	.951	.996

N = 700

DETECTION PROBABILITY

	F	0DB	1DB	2DB	3DB	4DB	5DB	6DB	7DB	8DB	9DB
1E-01	.101	.102	.103	.104	.107	.111	.119	.133	.157	.198	
9E-02	.091	.092	.093	.094	.096	.101	.108	.121	.144	.185	
8E-02	.081	.082	.082	.084	.086	.090	.097	.109	.132	.171	
7E-02	.071	.071	.072	.073	.076	.079	.086	.098	.119	.157	
6E-02	.061	.061	.062	.063	.065	.068	.075	.086	.106	.142	
5E-02	.051	.051	.052	.053	.054	.058	.063	.073	.092	.126	
4E-02	.041	.041	.041	.042	.044	.047	.052	.061	.078	.111	
3E-02	.030	.031	.031	.032	.033	.036	.040	.048	.063	.092	
2E-02	.020	.021	.021	.021	.022	.024	.028	.034	.047	.072	
1E-02	.010	.010	.011	.011	.012	.013	.015	.020	.029	.048	
9E-03	.009	.009	.009	.010	.010	.012	.014	.018	.027	.045	
8E-03	.008	.008	.008	.009	.009	.010	.012	.017	.025	.042	
7E-03	.007	.007	.007	.008	.008	.009	.011	.015	.023	.039	
6E-03	.006	.006	.006	.007	.007	.008	.010	.013	.021	.036	
5E-03	.005	.005	.005	.006	.006	.007	.008	.012	.018	.033	
4E-03	.004	.004	.004	.004	.005	.005	.007	.010	.016	.029	
3E-03	.003	.003	.003	.003	.004	.004	.005	.008	.013	.025	
2E-03	.002	.002	.002	.002	.002	.003	.004	.006	.010	.020	
1E-03	.001	.001	.001	.001	.001	.002	.002	.004	.007	.014	
9E-04	.001	.001	.001	.001	.001	.001	.002	.003	.006	.013	
8E-04	.001	.001	.001	.001	.001	.001	.002	.003	.006	.012	
7E-04	.001	.001	.001	.001	.001	.001	.002	.003	.005	.011	
6E-04	.001	.001	.001	.001	.001	.001	.001	.002	.005	.010	
5E-04	.001	.001	.001	.001	.001	.001	.001	.002	.004	.009	
4E-04	.000	.000	.000	.000	.001	.001	.001	.002	.004	.008	
3E-04	.000	.000	.000	.000	.000	.001	.001	.001	.003	.007	
2E-04	.000	.000	.000	.000	.000	.000	.001	.001	.002	.006	
1E-04	.000	.000	.000	.000	.000	.000	.000	.001	.002	.004	
9E-05	.000	.000	.000	.000	.000	.000	.000	.001	.001	.004	
8E-05	.000	.000	.000	.000	.000	.000	.000	.001	.001	.003	
7E-05	.000	.000	.000	.000	.000	.000	.000	.001	.001	.003	
6E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003	
5E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003	
4E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002	
3E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002	
2E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002	
1E-05	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	
9E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	
8E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	
7E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	
6E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	
5E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	
4E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	
3E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	
2E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
1E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	

N= 700

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.267	.372	.517	.686	.840	.943	.988	.999	1.000	1.000
9E-02	.252	.357	.502	.673	.832	.940	.987	.999	1.000	1.000
8E-02	.237	.341	.486	.659	.823	.936	.986	.998	1.000	1.000
7E-02	.221	.323	.468	.644	.813	.931	.984	.998	1.000	1.000
6E-02	.204	.304	.449	.627	.801	.925	.983	.996	1.000	1.000
5E-02	.186	.284	.427	.607	.786	.918	.980	.998	1.000	1.000
4E-02	.166	.260	.402	.583	.769	.908	.978	.997	1.000	1.000
3E-02	.144	.233	.371	.553	.746	.896	.974	.996	1.000	1.000
2E-02	.119	.201	.332	.512	.713	.877	.967	.995	1.000	1.000
1E-02	.086	.155	.273	.448	.656	.843	.954	.993	1.000	1.000
9E-03	.081	.149	.265	.438	.648	.837	.952	.992	.999	1.000
8E-03	.077	.143	.256	.428	.638	.830	.949	.992	.999	1.000
7E-03	.072	.136	.247	.416	.627	.823	.946	.991	.999	1.000
6E-03	.067	.128	.236	.403	.614	.814	.942	.990	.999	1.000
5E-03	.062	.120	.224	.388	.599	.804	.938	.989	.999	1.000
4E-03	.056	.110	.210	.370	.581	.791	.932	.988	.999	1.000
3E-03	.049	.099	.193	.347	.557	.773	.924	.986	.999	1.000
2E-03	.041	.085	.170	.317	.525	.748	.911	.983	.999	1.000
1E-03	.030	.065	.137	.269	.470	.702	.887	.976	.998	1.000
9E-04	.028	.062	.133	.263	.461	.695	.883	.975	.998	1.000
8E-04	.027	.059	.128	.255	.452	.686	.878	.973	.997	1.000
7E-04	.025	.056	.123	.247	.442	.677	.873	.972	.997	1.000
6E-04	.023	.053	.117	.238	.430	.667	.867	.970	.997	1.000
5E-04	.021	.049	.110	.227	.417	.654	.859	.967	.997	1.000
4E-04	.019	.045	.102	.214	.400	.638	.849	.964	.996	1.000
3E-04	.017	.040	.093	.199	.380	.618	.837	.960	.995	1.000
2E-04	.014	.034	.081	.179	.351	.589	.817	.953	.994	1.000
1E-04	.010	.025	.063	.148	.306	.539	.782	.939	.992	1.000
9E-05	.009	.024	.061	.143	.299	.532	.777	.936	.991	1.000
8E-05	.009	.023	.059	.139	.292	.523	.770	.934	.991	1.000
7E-05	.008	.022	.056	.133	.284	.514	.763	.931	.990	1.000
6E-05	.008	.020	.053	.128	.275	.503	.754	.927	.990	.999
5E-05	.007	.019	.049	.121	.264	.490	.744	.922	.989	.999
4E-05	.006	.017	.046	.113	.251	.475	.732	.917	.988	.999
3E-05	.005	.015	.041	.104	.236	.455	.715	.909	.986	.999
2E-05	.004	.013	.035	.092	.215	.427	.691	.897	.983	.999
1E-05	.003	.009	.027	.074	.182	.382	.648	.874	.978	.999
9E-06	.003	.009	.026	.072	.178	.375	.642	.870	.977	.998
8E-06	.003	.008	.025	.069	.172	.368	.634	.866	.975	.998
7E-06	.003	.008	.023	.066	.167	.359	.626	.861	.974	.998
6E-06	.002	.007	.022	.063	.161	.350	.616	.856	.973	.998
5E-06	.002	.007	.021	.059	.153	.339	.605	.849	.971	.998
4E-06	.002	.006	.019	.055	.145	.325	.591	.840	.968	.998
3E-06	.002	.005	.017	.050	.134	.309	.572	.828	.965	.997
2E-06	.001	.004	.014	.044	.121	.286	.546	.811	.959	.997
1E-06	.001	.003	.011	.034	.100	.250	.503	.780	.949	.995

N = 800

DETECTION PROBABILITY

	F	0DB	1DB	2DB	3DB	4DB	5DB	6DB	7DB	8DB	9DB
1E-01	.101	.102	.102	.104	.106	.110	.118	.130	.153	.193	
9E-02	.091	.092	.092	.094	.096	.100	.107	.119	.141	.180	
8E-02	.081	.081	.082	.083	.085	.089	.096	.107	.129	.166	
7E-02	.071	.071	.072	.073	.075	.078	.085	.096	.116	.152	
6E-02	.061	.061	.062	.063	.065	.068	.073	.084	.103	.137	
5E-02	.051	.051	.052	.052	.054	.057	.062	.072	.090	.122	
4E-02	.041	.041	.041	.042	.044	.046	.051	.059	.076	.108	
3E-02	.030	.031	.031	.032	.033	.035	.039	.047	.061	.088	
2E-02	.020	.021	.021	.021	.022	.024	.027	.033	.045	.069	
1E-02	.010	.010	.010	.011	.011	.012	.015	.019	.028	.046	
9E-03	.009	.009	.009	.010	.010	.011	.013	.016	.026	.043	
8E-03	.008	.008	.008	.009	.009	.010	.012	.016	.024	.040	
7E-03	.007	.007	.007	.008	.008	.009	.011	.014	.022	.037	
6E-03	.006	.006	.006	.007	.007	.008	.009	.013	.020	.034	
5E-03	.005	.005	.005	.005	.006	.007	.008	.011	.017	.031	
4E-03	.004	.004	.004	.004	.005	.005	.007	.009	.015	.027	
3E-03	.003	.003	.003	.003	.004	.004	.005	.007	.012	.023	
2E-03	.002	.002	.002	.002	.002	.003	.004	.006	.010	.019	
1E-03	.001	.001	.001	.001	.001	.002	.002	.003	.006	.013	
9E-04	.001	.001	.001	.001	.001	.001	.002	.003	.006	.012	
8E-04	.001	.001	.001	.001	.001	.001	.002	.003	.005	.011	
7E-04	.001	.001	.001	.001	.001	.001	.002	.003	.005	.010	
6E-04	.001	.001	.001	.001	.001	.001	.001	.002	.004	.010	
5E-04	.001	.001	.001	.001	.001	.001	.001	.002	.004	.009	
4E-04	.000	.000	.000	.000	.001	.001	.001	.002	.003	.008	
3E-04	.000	.000	.000	.000	.000	.001	.001	.001	.003	.007	
2E-04	.000	.000	.000	.000	.000	.000	.001	.001	.002	.005	
1E-04	.000	.000	.000	.000	.000	.000	.000	.001	.001	.004	
9E-05	.000	.000	.000	.000	.000	.000	.000	.001	.001	.003	
8E-05	.000	.000	.000	.000	.000	.000	.000	.001	.001	.003	
7E-05	.000	.000	.000	.000	.000	.000	.000	.001	.001	.003	
6E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003	
5E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002	
4E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002	
3E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002	
2E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.001	
1E-05	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	
9E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	
8E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	
7E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	
6E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	
5E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	
4E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	
3E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
2E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
1E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	

N= 800

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.259	.362	.506	.675	.833	.940	.987	.999	1.000	1.000
9E-02	.245	.347	.491	.662	.825	.936	.986	.998	1.000	1.000
8E-02	.230	.331	.475	.648	.815	.932	.984	.998	1.000	1.000
7E-02	.214	.314	.457	.633	.804	.926	.983	.998	1.000	1.000
6E-02	.197	.295	.438	.615	.792	.920	.981	.998	1.000	1.000
5E-02	.179	.274	.416	.595	.777	.913	.979	.997	1.000	1.000
4E-02	.160	.252	.390	.571	.759	.903	.976	.997	1.000	1.000
3E-02	.139	.225	.360	.541	.736	.891	.972	.996	1.000	1.000
2E-02	.114	.193	.321	.501	.703	.871	.965	.995	1.000	1.000
1E-02	.082	.149	.264	.436	.646	.836	.951	.992	.999	1.000
9E-03	.078	.143	.256	.427	.637	.830	.949	.992	.999	1.000
8E-03	.073	.137	.248	.417	.627	.823	.946	.991	.999	1.000
7E-03	.069	.130	.238	.405	.616	.816	.943	.990	.999	1.000
6E-03	.064	.123	.228	.392	.604	.807	.939	.990	.999	1.000
5E-03	.059	.114	.216	.377	.589	.796	.934	.988	.999	1.000
4E-03	.053	.105	.202	.360	.570	.783	.928	.987	.999	1.000
3E-03	.046	.094	.185	.337	.547	.765	.920	.985	.999	1.000
2E-03	.038	.081	.164	.308	.514	.739	.907	.981	.998	1.000
1E-03	.028	.062	.132	.261	.459	.693	.882	.974	.998	1.000
9E-04	.027	.059	.127	.254	.451	.685	.878	.973	.997	1.000
8E-04	.025	.056	.123	.247	.442	.677	.873	.972	.997	1.000
7E-04	.024	.054	.117	.239	.432	.668	.868	.970	.997	1.000
6E-04	.022	.050	.112	.230	.420	.657	.861	.968	.997	1.000
5E-04	.020	.047	.105	.219	.407	.644	.853	.965	.996	1.000
4E-04	.018	.043	.098	.207	.391	.629	.844	.962	.996	1.000
3E-04	.016	.038	.089	.192	.370	.608	.830	.957	.995	1.000
2E-04	.013	.032	.077	.172	.342	.579	.811	.950	.994	1.000
1E-04	.009	.024	.060	.142	.297	.530	.775	.936	.991	1.000
9E-05	.009	.023	.058	.138	.291	.522	.769	.933	.991	1.000
8E-05	.008	.022	.056	.133	.284	.514	.763	.931	.990	1.000
7E-05	.008	.021	.053	.128	.276	.504	.756	.927	.990	.999
6E-05	.007	.019	.050	.123	.267	.494	.747	.924	.989	.999
5E-05	.007	.018	.047	.116	.256	.481	.737	.919	.988	.999
4E-05	.006	.016	.043	.109	.244	.465	.724	.913	.987	.999
3E-05	.005	.014	.039	.100	.229	.446	.707	.905	.985	.999
2E-05	.004	.012	.033	.088	.208	.418	.683	.893	.982	.999
1E-05	.003	.009	.026	.071	.176	.373	.640	.869	.976	.998
9E-06	.003	.008	.025	.069	.172	.367	.633	.866	.975	.998
8E-06	.003	.008	.023	.066	.167	.359	.626	.861	.974	.998
7E-06	.002	.007	.022	.063	.161	.351	.617	.856	.973	.998
6E-06	.002	.007	.021	.060	.155	.342	.608	.851	.971	.998
5E-06	.002	.006	.019	.057	.148	.331	.596	.843	.969	.998
4E-06	.002	.006	.018	.053	.140	.318	.582	.835	.967	.997
3E-06	.002	.005	.016	.048	.130	.301	.564	.823	.963	.997
2E-06	.001	.004	.013	.042	.116	.279	.538	.805	.957	.996
1E-06	.001	.003	.010	.033	.096	.243	.494	.774	.946	.995

N = 900

DETECTION PROBABILITY

	F	0DB	1DB	2DB	3DB	4DB	5DB	6DB	7DB	8DB	9DB
	1E-01	.101	.102	.102	.104	.106	.110	.116	.129	.150	.188
	9E-02	.091	.091	.092	.093	.095	.099	.106	.117	.138	.175
	8E-02	.081	.081	.082	.083	.085	.088	.095	.106	.126	.162
	7E-02	.071	.071	.072	.073	.075	.078	.084	.094	.113	.148
	6E-02	.061	.061	.062	.063	.064	.067	.073	.082	.100	.133
	5E-02	.051	.051	.051	.052	.054	.056	.061	.070	.087	.118
	4E-02	.041	.041	.041	.042	.043	.046	.050	.058	.074	.100
	3E-02	.030	.031	.031	.032	.033	.035	.038	.046	.059	.085
	2E-02	.020	.020	.021	.021	.022	.024	.027	.032	.044	.067
	1E-02	.010	.010	.010	.011	.011	.012	.014	.018	.027	.044
	9E-03	.009	.009	.009	.010	.010	.011	.013	.017	.025	.041
	8E-03	.008	.008	.008	.009	.009	.010	.012	.015	.023	.039
	7E-03	.007	.007	.007	.008	.008	.009	.010	.014	.021	.036
	6E-03	.006	.006	.006	.006	.007	.008	.009	.012	.019	.033
	5E-03	.005	.005	.005	.005	.006	.006	.008	.011	.017	.029
	4E-03	.004	.004	.004	.004	.005	.005	.006	.009	.014	.026
	3E-03	.003	.003	.003	.003	.004	.004	.005	.007	.012	.022
	2E-03	.002	.002	.002	.002	.002	.003	.004	.005	.009	.018
	1E-03	.001	.001	.001	.001	.001	.001	.002	.003	.006	.012
	9E-04	.001	.001	.001	.001	.001	.001	.002	.003	.005	.011
	8E-04	.001	.001	.001	.001	.001	.001	.002	.003	.005	.011
	7E-04	.001	.001	.001	.001	.001	.001	.001	.002	.005	.010
	6E-04	.001	.001	.001	.001	.001	.001	.001	.002	.004	.009
	5E-04	.001	.001	.001	.001	.001	.001	.001	.002	.004	.008
	4E-04	.000	.000	.000	.000	.001	.001	.001	.002	.003	.007
	3E-04	.000	.000	.000	.000	.000	.001	.001	.001	.003	.006
	2E-04	.000	.000	.000	.000	.000	.000	.001	.001	.002	.005
	1E-04	.000	.000	.000	.000	.000	.000	.000	.001	.001	.003
	9E-05	.000	.000	.000	.000	.000	.000	.000	.001	.001	.003
	8E-05	.000	.000	.000	.000	.000	.000	.000	.001	.001	.003
	7E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003
	6E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003
	5E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	4E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	3E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	2E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.001
	1E-05	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	9E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	8E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	7E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	6E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	5E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	4E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	3E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	2E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	1E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

N= 900

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.253	.354	.496	.665	.826	.936	.986	.998	1.000	1.000
9E-02	.238	.338	.481	.653	.817	.932	.985	.998	1.000	1.000
8E-02	.223	.322	.465	.639	.808	.928	.983	.998	1.000	1.000
7E-02	.208	.305	.447	.623	.797	.923	.982	.998	1.000	1.000
6E-02	.191	.287	.428	.605	.784	.916	.980	.998	1.000	1.000
5E-02	.174	.267	.406	.585	.769	.909	.978	.997	1.000	1.000
4E-02	.155	.244	.381	.561	.751	.899	.974	.997	1.000	1.000
3E-02	.134	.218	.351	.531	.728	.886	.970	.996	1.000	1.000
2E-02	.109	.186	.313	.491	.694	.866	.963	.995	1.000	1.000
1E-02	.078	.143	.256	.427	.636	.829	.948	.992	.999	1.000
9E-03	.074	.138	.248	.417	.628	.823	.946	.991	.999	1.000
8E-03	.070	.132	.240	.407	.618	.817	.943	.991	.999	1.000
7E-03	.066	.125	.231	.396	.607	.809	.940	.990	.999	1.000
6E-03	.061	.118	.221	.383	.594	.800	.936	.989	.999	1.000
5E-03	.056	.110	.209	.368	.579	.789	.931	.988	.999	1.000
4E-03	.051	.101	.195	.351	.561	.776	.925	.986	.999	1.000
3E-03	.044	.090	.179	.329	.537	.758	.916	.984	.999	1.000
2E-03	.037	.077	.158	.299	.505	.731	.903	.980	.998	1.000
1E-03	.026	.059	.127	.254	.450	.685	.877	.973	.997	1.000
9E-04	.025	.057	.123	.247	.442	.677	.873	.972	.997	1.000
8E-04	.024	.054	.118	.240	.433	.669	.868	.970	.997	1.000
7E-04	.022	.051	.113	.232	.423	.660	.863	.968	.997	1.000
6E-04	.021	.048	.107	.223	.412	.649	.856	.966	.996	1.000
5E-04	.019	.045	.101	.213	.398	.636	.848	.964	.996	1.000
4E-04	.017	.041	.094	.201	.382	.620	.838	.960	.995	1.000
3E-04	.015	.036	.085	.186	.362	.600	.825	.955	.995	1.000
2E-04	.012	.031	.074	.167	.334	.571	.805	.948	.993	1.000
1E-04	.009	.023	.058	.137	.290	.521	.769	.933	.991	1.000
9E-05	.008	.022	.056	.133	.284	.514	.763	.931	.990	1.000
8E-05	.008	.021	.054	.129	.277	.506	.756	.928	.990	.999
7E-05	.007	.020	.051	.124	.269	.496	.749	.925	.989	.999
6E-05	.007	.018	.048	.119	.260	.485	.740	.921	.988	.999
5E-05	.006	.017	.045	.112	.250	.473	.730	.916	.987	.999
4E-05	.006	.015	.042	.105	.238	.457	.717	.910	.986	.999
3E-05	.005	.014	.037	.096	.223	.438	.700	.901	.984	.999
2E-05	.004	.011	.032	.085	.203	.410	.675	.889	.981	.999
1E-05	.003	.008	.024	.068	.171	.366	.633	.865	.975	.998
9E-06	.003	.008	.023	.066	.167	.359	.626	.861	.974	.998
8E-06	.002	.007	.022	.063	.162	.352	.618	.857	.973	.998
7E-06	.002	.007	.021	.061	.157	.344	.610	.852	.972	.998
6E-06	.002	.007	.020	.058	.151	.335	.600	.846	.970	.998
5E-06	.002	.006	.019	.054	.144	.324	.589	.839	.968	.998
4E-06	.002	.005	.017	.051	.136	.311	.575	.830	.965	.997
3E-06	.001	.005	.015	.046	.126	.295	.556	.815	.961	.997
2E-06	.001	.004	.013	.040	.113	.273	.530	.800	.956	.996
1E-06	.001	.003	.010	.031	.093	.237	.487	.768	.944	.995

N=1000

DETECTION PROBABILITY

	F	00B	10B	20B	30B	40B	50B	60B	70B	80B	90B
	1E-01	.101	.101	.102	.103	.105	.109	.115	.127	.148	.185
	9E-02	.091	.091	.092	.093	.095	.098	.105	.116	.136	.172
	8E-02	.081	.081	.082	.083	.085	.088	.094	.104	.124	.158
	7E-02	.071	.071	.072	.073	.074	.077	.083	.093	.111	.144
	6E-02	.061	.061	.061	.062	.064	.067	.072	.081	.098	.130
	5E-02	.051	.051	.051	.052	.053	.056	.061	.069	.085	.115
	4E-02	.040	.041	.041	.042	.043	.045	.049	.057	.072	.101
	3E-02	.030	.031	.031	.031	.032	.034	.038	.045	.058	.083
	2E-02	.020	.020	.021	.021	.022	.023	.026	.032	.043	.064
	1E-02	.010	.010	.010	.011	.011	.012	.014	.018	.026	.042
	9E-03	.009	.009	.009	.010	.010	.011	.013	.016	.024	.040
	8E-03	.008	.008	.008	.009	.009	.010	.012	.015	.022	.037
	7E-03	.007	.007	.007	.008	.008	.009	.010	.013	.020	.034
	6E-03	.006	.006	.006	.006	.007	.008	.009	.012	.018	.031
	5E-03	.005	.005	.005	.005	.006	.006	.008	.010	.016	.028
	4E-03	.004	.004	.004	.004	.005	.005	.006	.009	.014	.025
	3E-03	.003	.003	.003	.003	.004	.004	.005	.007	.011	.021
	2E-03	.002	.002	.002	.002	.002	.003	.003	.005	.009	.017
	1E-03	.001	.001	.001	.001	.001	.001	.002	.003	.006	.011
	9E-04	.001	.001	.001	.001	.001	.001	.002	.003	.005	.011
	8E-04	.001	.001	.001	.001	.001	.001	.002	.003	.005	.010
	7E-04	.001	.001	.001	.001	.001	.001	.001	.002	.004	.009
	6E-04	.001	.001	.001	.001	.001	.001	.001	.002	.004	.009
	5E-04	.001	.001	.001	.001	.001	.001	.001	.002	.004	.008
	4E-04	.000	.000	.000	.000	.001	.001	.001	.002	.003	.007
	3E-04	.000	.000	.000	.000	.000	.000	.001	.001	.003	.006
	2E-04	.000	.000	.000	.000	.000	.000	.001	.001	.002	.005
	1E-04	.000	.000	.000	.000	.000	.000	.000	.001	.001	.003
	9E-05	.000	.000	.000	.000	.000	.000	.000	.001	.001	.003
	8E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003
	7E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003
	6E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	5E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	4E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	3E-05	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002
	2E-05	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	1E-05	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	9E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	8E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	7E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	6E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	5E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	4E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001
	3E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	2E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	1E-06	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

N=1000

DETECTION PROBABILITY

F	10DB	11DB	12DB	13DB	14DB	15DB	16DB	17DB	18DB	19DB
1E-01	.247	.346	.487	.657	.820	.933	.985	.998	1.000	1.000
9E-02	.233	.331	.472	.644	.811	.929	.984	.998	1.000	1.000
8E-02	.218	.315	.456	.630	.801	.924	.982	.998	1.000	1.000
7E-02	.203	.298	.438	.614	.790	.919	.981	.998	1.000	1.000
6E-02	.186	.280	.419	.596	.777	.912	.979	.997	1.000	1.000
5E-02	.169	.260	.397	.576	.762	.905	.976	.997	1.000	1.000
4E-02	.150	.237	.372	.552	.744	.895	.973	.996	1.000	1.000
3E-02	.130	.212	.343	.522	.720	.881	.968	.996	1.000	1.000
2E-02	.106	.181	.305	.482	.686	.861	.961	.994	1.000	1.000
1E-02	.075	.138	.249	.418	.628	.824	.946	.991	.999	1.000
9E-03	.072	.133	.242	.409	.619	.818	.944	.991	.999	1.000
8E-03	.068	.127	.233	.399	.610	.811	.941	.990	.999	1.000
7E-03	.063	.121	.224	.388	.599	.803	.937	.989	.999	1.000
6E-03	.059	.114	.214	.375	.586	.794	.933	.988	.999	1.000
5E-03	.054	.106	.203	.360	.571	.783	.928	.987	.999	1.000
4E-03	.049	.097	.190	.343	.552	.769	.922	.985	.999	1.000
3E-03	.042	.087	.174	.321	.529	.751	.913	.983	.999	1.000
2E-03	.035	.074	.153	.292	.496	.724	.899	.979	.998	1.000
1E-03	.025	.057	.123	.247	.442	.677	.873	.972	.997	1.000
9E-04	.024	.054	.119	.241	.434	.670	.869	.970	.997	1.000
8E-04	.023	.052	.114	.234	.425	.662	.864	.969	.997	1.000
7E-04	.021	.049	.109	.226	.415	.653	.858	.967	.996	1.000
6E-04	.020	.046	.104	.217	.404	.642	.852	.965	.996	1.000
5E-04	.018	.043	.098	.207	.391	.629	.844	.962	.996	1.000
4E-04	.016	.039	.091	.195	.375	.613	.833	.958	.995	1.000
3E-04	.014	.035	.082	.181	.355	.592	.820	.953	.994	1.000
2E-04	.012	.029	.071	.162	.328	.563	.800	.946	.993	1.000
1E-04	.008	.022	.056	.133	.284	.514	.763	.931	.990	1.000
9E-05	.008	.021	.054	.129	.278	.506	.757	.928	.990	.999
8E-05	.007	.020	.052	.125	.271	.498	.751	.925	.989	.999
7E-05	.007	.019	.049	.120	.263	.489	.743	.922	.989	.999
6E-05	.006	.018	.046	.115	.254	.478	.734	.918	.988	.999
5E-05	.006	.016	.043	.109	.244	.465	.724	.913	.987	.999
4E-05	.005	.015	.040	.102	.232	.450	.711	.907	.985	.999
3E-05	.005	.013	.036	.093	.217	.430	.694	.898	.983	.999
2E-05	.004	.011	.031	.082	.198	.404	.669	.885	.980	.999
1E-05	.003	.008	.023	.066	.167	.359	.626	.861	.974	.998
9E-06	.002	.008	.023	.064	.162	.353	.619	.857	.973	.998
8E-06	.002	.007	.021	.061	.158	.346	.612	.853	.972	.998
7E-06	.002	.007	.020	.059	.153	.338	.603	.848	.970	.998
6E-06	.002	.006	.019	.056	.147	.328	.594	.842	.969	.998
5E-06	.002	.006	.018	.053	.140	.318	.582	.835	.967	.997
4E-06	.002	.005	.016	.049	.132	.305	.568	.825	.964	.997
3E-06	.001	.005	.014	.044	.122	.289	.550	.813	.960	.997
2E-06	.001	.004	.012	.039	.110	.267	.524	.795	.954	.996
1E-06	.001	.003	.009	.030	.090	.232	.480	.763	.942	.994

11 MINUTES, 19 SECONDS.
END JOB 06560.